

From the Ministry of Industry and Technology:

**DRAFT COMMUNIQUÉ REPEALING OF THE COMMUNIQUÉS  
ON THE CERTAIN MANDATORY STANDARDS  
(COMMUNIQUÉ NO: SGM 2022/...)**

**ARTICLE 1** – Communiqués on the certain mandatory standards with the date and number of the Official Gazette in the attached list of this Communiqué have been repealed.

**ARTICLE 2** – This communiqué shall enter into force after six months following the date of publication in Official Gazette.

**ARTICLE 3** – The provisions of this Communiqué shall be enforced by the Minister of Industry and Technology.

**ANNEX****LIST OF REPEALED MANDATORY STANDARDS**

<b>Total Number of Communiques</b>	<b>Name and Number of Repealed Communiqué</b>	<b>Standard No</b>	<b>Name of the Standard</b>	<b>Scope of the Standard</b>
1.	Communique on Mandatory Standard published in the Official Gazette No. 25096 of 2 May 2003 (Communique Number: ÖSG-2003/40)	TS 1	Turkish Flag And Bunting Cloth	This standard covers the specifications of fabrics for manufacturing Turkish Flag and bunting cloth.
2.	Communique on Mandatory Standard published in the Official Gazette No. 26476 of 28 March 2007 (Communique Number: ÖSG-2007/02)	TS 1/T1		
3.	Communique on Mandatory Standard published in the Official Gazette No. 22309 of 10 June 1995 (Communique Number: 95/21-22)	TS 3	Concentric-Lay-Stranded Copper Conductors For Overhead Lines	This standard covers concentric-loy-stranded conductors made of round copper wires for overhead lines.
4.	Communique on Mandatory Standard published in the Official Gazette No. 23356 of 25 May 1998 (Communique Number: 98/24-25)	TS 40	Plugs and Socket outlets for household and similar purposes - Standard sheets	This standard covers plugs and socket outlets for household and similar purposes.
5.	Communique on Mandatory Standard published in the Official Gazette No. 20278 of 10 September 1989 (Communique Number: FKS-89/33-33)	TS 57	Porcelain Insulators for Telegraph And Telephone Lines	This standard applies to post insulators of ceramic material for supporting wires on telegraph and telephone lines.
6.	Communique on Mandatory Standard published in the Official Gazette No. 20675 of 24 October 1990 (Communique Number: 90/73-74)	TS 59	Screwdrivers Hand Drives	This standard covers hand screw drivers. It does not cover machine screw drivers, electrically isolated screw drivers and recessed screw drivers.

7.	Communique on Mandatory Standard published in the Official Gazette No. 21172 of 15 March 1992 (Communique Number: 91/113-114)	TS 59/Amendment		
8.	Communique on Mandatory Standard published in the Official Gazette No. 21461 of 10 January 1993 (Communique Number: 92/126-127)	TS 59/Amendment		
9.	Communique on Mandatory Standard published in the Official Gazette No. 21642 of 19 July 1993 (Communique Number: 93/73-74)	TS 59/Amendment		
10.	Communique on Mandatory Standard published in the Official Gazette No. 23765 of 24 July 1999 (Communique Number: ÖSG- 99/76-77)	TS 62	Twist Drills - Alloyed Cold Work Tool Steel Or Hard Metal Brazing Tips	This standard applies to cylindrical morse tapered shank drills for drilling holes in metal, plastic, concrete, etc. materials.
11.	Decision of the Council of Ministers No. 7/14956 of 27 February 1978 published in the Official Gazette No. 16259 of 14 April 1978	TS 76	Porcelain Insulators for Overhead Lines With Nominal Voltages Up To 1000 Volts	This standard applies to insulators of ceramic material for overhead lines with nominal voltages up to 1000 volts. It does not cover insulators used in telegraph and telephone lines and insulators used in voltages higher than 1000 V.
12.	Communique on Mandatory Standard published in the Official Gazette No. 19024 of 19 February 1986 (Communique Number: FKS-85/155- 99/158)	TS 78	Reamers	This standard covers reamers classified in Clause 1.1.
13.	Communique on Mandatory Standard published in the Official Gazette No. 19287	TS 78/T1		

	of 20 November 1986 (Communique Number: FKS-86/89-90)			
14.	Communique of Amendment on Mandatory Standard published in the Official Gazette No. 26596 of 28 July 2007 (Communique Number: ÖSG-2007/19)	TS 81	Assembly tools for screws and nuts - Engineers wrenches with open end	This standard covers open-ended wrenches having dimensions of width across flats given in their leaflets and used for tightening or dismantling bolts and nuts.
15.	Communique on Assembly Tools For Screws and Nuts - Engineers Wrenches With Open End (TS 81) published in the Official Gazette No. 28198 of 8 February 2012 (Communique Number: MSG-TD-2012/2)	TS 81/T1 ve T2		
16.	Communique on Mandatory Standard published in the Official Gazette No. 24582 of 13 November 2001 (Communique Number: ÖSG-2001/94/95)	TS 82	For general purposes screwing taps	This standard covers general purpose screwing taps which are threaded by hand or machine to metal, plastic, etc. materials in accordance with TS 61. It does not cover specific screwing taps.
17.	Communique on Mandatory Standard published in the Official Gazette No. 27721 of 6 October 2010 (Communique Number: ÖSG-2010/22)	TS 82/T3		
18.	Communique on Mandatory Standard published in the Official Gazette No. 24834 of 2 August 2002 (Communique Number: ÖSG-2002/53)	TS 183 EN 60081	Double-Capped fluorescent lamps - Performance specifications	This standard specifies the performance requirements for double-capped fluorescent lamps for general lighting service. The requirements in this standard relate only to type testing. Conditions of compliance, including methods of statistical assessment should be The following lamp types and modes of operation are included:  a) Lamps having preheated cathodes operating at high frequencies designed to

				<p>operate at a.c. grid frequencies with the use of a starter</p> <p>b) Lamps having preheated cathodes operating at high frequencies designed to operate at a.c. grid frequencies without the use of a starter</p> <p>c) Lamps having preheated cathodes operating at low frequencies designed to operate at a.c. grid frequencies without the use of a starter</p> <p>d) Lamps with preheated cathodes designed to operate at high frequencies.</p> <p>e) Lamps with unpreheated cathodes designed to operate at a.c. grid frequencies.</p> <p>f) Lamps with non-preheated cathodes designed to operate at high frequencies.</p>
19.	Communique on Standard of V Belts published in the Official Gazette No. 30469 of 5 July 2018 (Communique Number: MSG-MS-2018/2)	TS 198	V-Belts	This standard specifies the definition, classification and characteristics, sampling, inspection and tests and the way of placing on the market of V belts. This standard covers V-belts specified in clause 4.1.2.
20.	Communique on TS 198/T1,T2,T3 Standard For V Belts published in the Official Gazette No. 31302 of 12 November 2020 (Communique Number: SGM-MS-2020/10)	TS 198/T1, T2 ve T3		
21.	Decision of the Council of Ministers of 10 January 1969 No. 6/11190 published in the Official Gazette No. 13172 of 11 April 1969	TS 214	Processed Leathers	This standard covers marketing conditions and selling units of processed leathers obtained from cattle, buffalo, horse, camel, sheep, goat. It does not cover leathers obtained from pig and other animals and imported leathers.
22.	Communique on Mandatory Standard published in the Official Gazette No. 19275	TS 214/Amendment		

	of 8 November 1986 (Communique Number: FKS-86/86-87)			
23.	Decision of the Council of Ministers of 10 January 1969 No. 6 January 11190 published in the Official Gazette No. 13172 of 11 April 1969	TS 219	Sole Leather	This standard covers sole leather. It does not cover saddle soap belting sole leather, chromated sole leather and cattle processed leather.
		TS 220	Saddle Leather	This standard covers saddle soap leather. It does not cover other sole leather and all other processed leather.
		TS 221	Belting Leather	This standard covers only belting leathers. It does not cover other sole leather and all other cattle processed leather.
		TS 222	Chrome Sole Leather	This standard covers only oily and oilless chromated sole leather. It does not cover other chromated leather, sole leather and all other cattle processed leather.
		TS 223	Vegetable Tanned Upper Leather	This standard covers vegetable tanned upper leather. It does not cover semi-chrome vegetable tanned upper leather and other processed leather.
		TS 225	Box-Calf and Rind-Box (Chrome Tanned Upper Leather)	This standard covers box-calf and rind-box (chrome tanned upper leather). It does not cover single tanning or combined chrome tanned leather and all other processed leather.
		TS 226	Suede Leather	This standard covers suede leather only obtained from cattle, calf, buffalo calf, goat, sheep leathers. It does not cover chrome tanned or glazed finish processed leather.

		TS 227	Glase (şevro)	This standard covers glazed (kid) leathers. It does not cover other processed facial kid leather.
		TS 228	Nappa Grain and Suede Leather for Gloves	This standard covers nappa grain and suede leather for glase. It does not cover lamb leather.
		TS 229	Lining Leather	This standard covers lining leather obtained from sheepskin and goatskin. It does not cover other sheep and goat processed leather.
		TS 230	Clothing Leather	This standard covers clothing leather only obtained from sheepskin and goatskin. It does not cover other sheep and goat processed leather.
		TS 231	Morocco Leather	This standard covers only Morocco leather. It does not cover other goat processed leather.
		TS 232	Goat Skins for Covering	This standard covers only goat skins for covering, It does not cover other goat processed leather.
		TS 233	Chamois Leather	This standard covers chamois leather. It does not cover other sheep processed leather.
		TS 234	Grease	This standard covers only grease. It does not cover cattle, calf, horse, camel, goat, kid and sheep processed leather.
24.	Communique on TS 224 Standard For Leather - Semichrommed Vachetta Leather-Specifications published in the Official	TS 224	Leather - Semichrommed	This standard covers the definition, classification and characteristics, sampling,

	Gazette No. 30809 of 22 June 2019 (Communique Number: MSG-MS-2019/17)		vachetta leather - Specifications	inspection and tests and the way of placing on the market of semi-chrome vaketa.
25.	Communique on Mandatory Standard published in the Official Gazette No. 25096 of 2 May 2003 (Communique Number: ÖSG- 2003/41)	TS 260	Cotton Yarn - Carded - Grey - Single - For Woven Fabrics	This standard covers the specifications for single plied cotton yarns 6 Ne to 46 Ne, intended for use in woven fabrics, carded and manufactured in a ring spinning system, and made from cotton fibers which are short and medium in length. It does not cover yarns produced by other methods.
26.	Communique on Mandatory Standard published in the Official Gazette No. 25096 of 2 May 2003 (Communique Number: ÖSG- 2003/42)	TS 262	Cotton Yarn - Carded - Grey - Single - For Knitted Fabrics	This standard covers the specifications for single plied cotton yarns 6 Ne to 46 Ne, intended for use in knitted fabrics, carded and manufactured in a ring spinning system, and made from cotton fibers which are short and medium in length. It does not cover yarns produced by other methods.
27.	Communique on Mandatory Standard published in the Official Gazette No. 25096 of 2 May 2003 (Communique Number: ÖSG- 2003/43)	TS 263	Cotton Yarn - Combed - Grey - Single - For woven fabrics	This standard covers the specifications for single plied cotton yarns 18 Ne to 106 Ne, intended for use in woven fabrics, combed and manufactured in a ring spinning system, and made from cotton fibers which are medium and long in length. It does not cover yarns produced by other methods.
28.	Communique on Mandatory Standard published in the Official Gazette No. 25096 of 2 May 2003 (Communique Number: ÖSG- 2003/44)	TS 265	Cotton Yarn - Combed - Grey - Single - For Knitted Fabrics	This standard covers the specifications for single plied cotton yarns 18 Ne to 106 Ne, intended for use in knitted fabrics, combed and manufactured in a ring spinning system, and made from cotton fibers which are medium and long in length. It does not cover combed yarns produced by other methods.



29.	Communique on Mandatory Standard published in the Official Gazette No. 24448 of 30 June 2001 (Communique Number: ÖSG-2001/60-61)	TS 291-1 ISO 525		This standard covers bonded abrasive product in general (grinding wheels, segment, sticks and stones) excluding abrasive products with diamond or cubik boron nitride. It covers:
30.	Communique on Mandatory Standard published in the Official Gazette No. 24676 of 19 February 2002 (Communique Number: ÖSG-2002/8)	TS 291-1 ISO 525/T1	Bonded abrasive products - General requirements	<ul style="list-style-type: none"> <li>- The designation</li> <li>- The main form and demomination of bonded abrasive products</li> <li>- The standard profile of straight wheels</li> <li>- The range of outside diameters</li> <li>- The range of bore diameters – Specifications</li> <li>- Technical specifications</li> <li>- Marking</li> </ul> <p>This standard is a general standard and complements each other with ISO 603-1 to ISO 603-16, ISO 6103 and ISO 13942 standards.</p>
31.	Communique on Milling Cutters - For Metals published in the Official Gazette No. 28603 of 30 March 2013 (Communique Number: MSG-MS-2013/5)	TS 303	Milling Cutters - For Metals	This standard covers milling cutters used in metalworking. This standard does not cover milling cutters made entirely of hard metal. TS EN ISO 15641:2012 should be consulted for the hazards arising from the use of milling cutters in high speed machining (machining at increased peripheral speeds), related safety rules and precautions to be taken.
32.	Communique on Mandatory Standard published in the Official Gazette No. 23760	TS 352	Lead Shots	This standard specifies lead shots used in manufacturing of shotgun cartridges.

	of 19 July 1999 (Communique Number: ÖSG-99/53-54)			
33.	Communique on Mandatory Standard published in the Official Gazette No. 21657 of 3 August 1993 (Communique Number: 93/67-68)	TS 377	Welded Steel Boilers, Cylindrical (Design Pressure Between 0,5 MPa - 2,5 MPa)	This standard contains design and construction including Materials, workmanship, inspection, testing, documentation and marking of directly fired and waste heat shell boilers. The boilers dealt with are of cylindrical design either horizontal or vertical.
34.	Communique on Mandatory Standard published in the Official Gazette No. 21657 of 13 October 1999 (Communique Number: 99/46-47)	TS 377/T1		
35.	Communique on Mandatory Standard published in the Official Gazette No. 23954 of 4 February 2000 (Communique Number: ÖSG-2000/1-2)	TS 377/T2		
36.	Communique on Mandatory Standard published in the Official Gazette No. 18816 of 19 July 1985 (Communique Number: FKS-85/90-93)	TS 430	Sectional Cast Iron Boilers	This standard covers boilers which provides heating fluid to the heating installation and/or domestic hot water production installation, which is made of cast iron slices; a) Low pressure steam boilers (TS 2838) b) Hot water boilers operating in a system open to the atmosphere and having the highest operating pressure of 6x102 KPa (TS 2796), c) Hot water boilers (TS 2736), which are connected to the pressurized system and have a maximum operating pressure of 6 x 102 KPa and a maximum operating temperature of 130°C.  This standard does not cover steel welded and steel section boilers.
37.	Communique on Mandatory Standard published in the Official Gazette No. 22213 of 25 February 1995 (Communique Number: 95/9-10)	TS 430/T1		
38.	Communique on Mandatory Standard published in the Official Gazette No. 25095 of 1 May 2003 (Communique Number: ÖSG-2003/36)	TS 430/T2		

39.	Communique on TS 431 Standard For Screws - For Wood published in the Official Gazette No. 30070 of 18 May 2017 (Communique Number: MSG-MS-2017/4)	TS 431	Screws - For wood	<p>This standard covers description, classification and characteristics, sampling, inspection and tests and the way of placing on the market of the screws used for wood.</p> <p>This standard does not cover the particleboard bolt/screw.</p>
40.	Communique on Mandatory Standard published in the Official Gazette No. 24120 of 25 July 2000 (Communique Number: ÖSG-2000/90-91)	TS 432-11	Hexagon head and slotted head thread cuttings screws - Dimensions requirements and testing	<p>This standard specifies dimensions, requirements and test methods for heat-treated hexagon head and slotted head thread cutting screws with an TS 61-131 ISO 261 metric thread, with cutting flutes extending from the point of the screw to its head, and designed to cut their mating tread during assembly. Head shapes are given in the relevant TS standards, general features are given in TS 80 (ISO 8992), and acceptance examinations are given in TS 80 (ISO 3269).</p> <p>The rules in this standard have been prepared in such a way that the tapped sheet bolts can fulfill the above functions without their own screw threads breaking or deteriorating. For this, properties related to screw thread forming ability, surface hardness, tensile strength and torsional strength were determined.</p>
		TS 432-12	Cross recessed head thread cuttings screws - Dimensions	<p>This standard specifies dimensions, requirements and test methods for heat-treated cross recessed head thread cutting screws with an TS 61-13 ISO 261 metric thread with cutting flutes extending from the</p>

			requirements and testing	<p>point of the screw to its head and designed to cut their mating thread during assembly.</p> <p>Head shapes are given in the relevant TS standards, general features are given in TS 80 (ISO 8992), and acceptance examinations are given in TS 80 (ISO 3269).</p> <p>The rules in this standard have been prepared in such a way that the tapped sheet bolts can fulfill the above functions without their own screw threads breaking or deteriorating.</p> <p>For this, properties related to screw thread forming ability, surface hardness, tensile strength and torsional strength were determined.</p>
41.	Communique on Standard For Woodworking Chisels and Gouges published in the Official Gazette No. 30469 of 5 July 2018 (Communique Number: MSG-MS-2018/8)	TS 531	Woodworking chisels and gouges	This standard covers woodworking chisels and gauges
42.	Communique on Mandotary Standard published in the Official Gazette No. 24064 of 30 May 2000 (Communique Number: ÖSG-2000/61-62)	TS 565 EN 60129	Alternating current disconnectors and earthing switches	<p>This standard covers alternating current disconnectors and earthing switches designed for indoor and outdoor installation at voltages above 1000 V and operating frequencies up to 60 Hz (including 60 Hz).</p> <p>This standard also applies to the actuation devices of these disconnectors and earthing switches and their auxiliary equipment.</p> <p>This standard, IEC standards [TS 5248 IEC 60298: Metal Enclosed Switchgear and</p>

				<p>Control Equipment - Rated Voltages Above 1 kV Up to 72.5 kV (including 72.5 kV) TS 6945 IEC 60466 : Insulated Enclosed</p> <p>AA. Switchgear and Control Equipment - Equipment with Rated Voltages Above 1 kV and Up to 38 kV (including 38 kV) - Rated Voltages and TS 5334 IEC 60517 : Switching Equipment - Gas Insulated Metal Enclosed - Rated Voltages of 72.5 kV and Above It does not touch upon additional rules for disconnectors and earthing switches in enclosed switchgear and control equipment covered by for].</p> <p><b>NOTE</b> - This standard does not cover disconnectors which are inseparable with a fuse. When using a position indicating device as an alternative to the visible insulation distance or spacing and this device is connected to the movable contacts of the disconnector and earthing switch by a mechanical connection, the following instructions should be followed.</p> <p><b>NOTE</b> - These IEC standards (TS 565 EN 60229 (IEC 60129) Article 5.104.2, TS 6248 (IEC 60298), Article 5.105, TS 3589 (IEC 60265-1) Article 5.104.2, IEC 60265-2, Article 5.103. 2 and TS 5334 (IEC 60517) Clause 5.106) accepts the moving contact position as an alternative to a visible</p>
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				<p>insulation distance or spacing indicated by a reliable indicating device. Additional design and test requirements are given in this standard and these must be made to demonstrate that this display arrangement can be relied upon.</p>
43.	<p>Communique on Mandatory Standard published in the Official Gazette No. 20408 of 20 January 1990 (Communique Number: 89/126-127)</p>	TS 595	<p>Bushings used in alternating voltages above 1000 volts</p>	<p>This standard applies to a.c. bushings used in electrical appliances, transformers and similar devices with nominal voltage above 1000 V and for service frequencies on the range between 15 Hz and 60 Hz.</p> <p>This standard does not cover bushings used in rectifiers, rotary machines, test transformers and power cable headers. In addition, support insulators similar to TS 5334 and bushings used in metal-enclosed switchgears of 72.5 kV and above are also outside the scope of this standard. For these, special agreement terms between the buyer and the seller apply.</p> <p><b>NOTE 1</b> - Where previously stated, this standard is also applicable to bushings used in systems with a phase number other than 3-phase.</p> <p><b>NOTE 2</b> - If, due to its design and use, it is not possible to test a bushing separately according to the requirements of this standard, then a previously specified test method should be used.</p>

44.	Communique on Mandatory Standard published in the Official Gazette No. 24922 of 31 October 2002 (Communique Number: ÖSG-2002/63)	TS 606	Textiles - Cotton lace and embroidery yarns	This standard covers lace and embroidery yarns from 100 % cotton fibres.
45.	Communique on TS 663 Standard For Road Vehicles – Tyre Chains published in the Official Gazette No. 30086 of 4 June 2017 (Communique Number: MSG-MS-2017/3)	TS 663	Road Vehicles - Tyre chains	This standard covers metal spinning chain which defined in the Road Traffic Regulation M1, N1, O1, O2 (passenger cars, light commercial vehicles and trailers) and M2, M3, N2, N3, O3 and O4 (trucks, buses and trailers) in the category of road vehicles used in metal spinning chains. This standard does not cover anti-skid devices other than metal anti-skid chains.
46.	Communique on Mandatory Standard published in the Official Gazette No. 27826 of 25 January 2011 (Communique Number: ÖSG-2011/2)	TS 862-7 EN 3-7+A1	Portable fire extinguishers - Part 7: Characteristics, performance requirements and test methods	<p>This standard specifies the characteristics, performance requirements and test methods for portable fire extinguishers.</p> <p>Reference to the suitability of an extinguisher for use on gaseous fires (class C fires) are at the manufacturer's discretion, but are applied only to powder type extinguishers which have gained a class B or class A and class B rating.</p> <p>Suitability of extinguishers for use on class D fires (fires involving flammable metals) is outside the scope of this standard in respect of test fires. However, extinguishers claiming class D suitability are covered in all other respects by the requirements in this standard for powder extinguishers.</p>

			<p>It is considered hazardous for powder and carbon dioxide fire extinguishers to be used on Class F fires. For this reason powder and carbon dioxide fire extinguishers are excluded for conformance with regard to Class F in this standard."</p> <p><b>NOTE</b> - The extinction of a metal fire presents a situation so specific (in terms of the metal itself, its form, the configuration of the fire etc.) that it is not possible to define a representative standard fire for the purposes of testing. The efficiency of extinguishers on class D fires needs to be established on a case by case basis.</p>
		<p>TS 5374 EN 60454-3-1</p> <p>Pressure-sensitive adhesive tapes for electrical purposes - Part 3:Specifications for individual materials - Sheet 1: PVC film tapes with pressure-sensitive adhesive</p>	<p>This standard specifies the requirements for insulating strips made of pressure sensitive and adhesive PVC film.</p> <p>Materials conforming to this standard meet the requirements for established performance levels. However, material selection by a user for a particular application should not be based solely on this standard, but rather the actual conditions required for adequate performance in that application.</p>
		<p>TS EN 755-1</p> <p>Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles - Part 1: Technical conditions for</p>	<p>This standard specifies the technical conditions for inspection and delivery of wrought aluminium and aluminium alloy extruded rod/bar, tube and profile for general engineering applications.</p>



			inspection and delivery	<p>This standard, does not apply to:</p> <ul style="list-style-type: none"> <li>- forging stock (EN 603),</li> <li>- extruded precision profiles in alloys EN AW-6060 and EN AW-6063 (EN 12020),</li> <li>- products delivered in coils (prEN 13957),</li> <li>- coiled tubes cut to length (prEN 13957).</li> </ul>
		TS EN 755-2	Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles - Part 2: Mechanical properties	This document specifies the mechanical property limits resulting from tensile testing applicable to aluminium and aluminium alloy extruded rod/bar, tube and profile.
		TS EN 1092-2	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 2: Cast iron flanges-	This standard specifies requirements for circular flanges made from ductile, grey and malleable cast iron for DN 10 to DN 4000 and PN 2,5 to PN 63. It also specifies the types of flanges and their facings, dimensions and tolerances, bolt sizes, surface finish of jointing faces, marking, testing, quality assurance and materials together with associated pressure/temperature (p/T) ratings.
		TS EN 1664	Prevailing torque type all-metal hexagon nuts with flange	<p>This standard covers the characteristics of flanged hexagon nuts with metal securing elements within the range of;</p> <ul style="list-style-type: none"> <li>- nominal diameter <math>M5 \leq d \leq M20</math>,</li> <li>- product grade A for a nominal diameter of <math>M5 \leq d \leq M16</math> mm,</li> </ul>

				<ul style="list-style-type: none"> <li>- product grade B for a nominal diameter d &gt; M16,</li> <li>- strength classes 8,10 and 12.</li> </ul>
		TS EN 1759-1	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, class designated - Part 1: Steel flanges, NPS 1/2 to 24	<p>This standard specifies the requirements for a single system of circular steel flanges in Class designations Class 150 to Class 2 500 and nominal sizes from NPS ½ to NPS 24.</p> <p><b>NOTE</b> - The relationship between nominal diameter (DN) and nominal pipe size (NPS) is given for reference purposes in Tables 9 to 14.</p> <p>This standard specifies the flange types and their facings, dimensions, tolerances, threading, bolt sizes, flange jointing, face surface finish, marking, materials and pressure/temperature ratings.</p> <p>This standard does not apply to flanges made from bar stock by turning, or to flanges of types 11, 12, 13, 14 and 15 made from plate material.</p>
		TS EN ISO 8748	Spring-type straight pins - Coiled, heavy duty	<p>This standard specifies the characteristics of heavy duty coiled spring-type straight pins made of steel or of austenitic or martensitic stainless steel, with nominal diameter, d&lt;(Index)1&gt;, from 1.5 mm to 20 mm inclusive.</p> <p><b>NOTE</b> - Spring-type straight pins, coiled, standard duty and spring type straight pins,</p>

				coiled, light duty, are the subjects of ISO 8750 and ISO 8751 respectively.
		TS EN ISO 8750	Spring-type straight pins - Coiled, standard duty	<p>This standard specifies the characteristics of standard duty coiled spring-type straight pins made of steel or of austenitic or martensitic stainless steel, with nominal diameter, <math>d_{(Index)1}</math>, from 0.8 mm to 20 mm inclusive.</p> <p><b>NOTE</b> - Spring-type straight pins, coiled, heavy duty and spring type straight pins, coiled, light duty, are the subjects of ISO 8748 and ISO 8751 respectively.</p>
		TS EN ISO 8751	Spring-type straight pins - Coiled, light duty	<p>This standard specifies the characteristics of coiled light duty spring-type straight pins made of steel or of austenitic or martensitic stainless steel, with a nominal diameter, <math>d_1</math>, from 1.5 mm to 8 mm inclusive.</p> <p><b>NOTE</b> - Spring-type straight pins, coiled, heavy duty, and spring type straight pins, coiled, standard duty, are the subjects of ISO 8748 and ISO 8750, respectively.</p>
		TS EN 10001	Definition and classification of pig-irons	The purpose of this standard is to standardize the definition of pig-irons and the the subdivisions of pig irons divided into different classes.
		TS EN 10056-2	Structural steel equal and unequal leg angles- Part 2: Tolerances on	This standard deals with tolerances on shape and dimensions of the mass of hot rolled structural steel equal and unequal leg angles.

			shape and dimensions	<p>This standard does not apply to angle brackets.</p> <p>These requirements do not apply to equilateral angles and scaled angles rolled from stainless steel.</p>
		TS EN 10089	Hot-rolled steels for quenched and tempered springs - Technical delivery conditions	<p>This Standard specifies the technical delivery requirements for round and flat bars, ribbed and grooved bars and rod manufactured from the alloy steels listed in Table 3, intended for hot-formed and subsequently heat-treated springs or cold-formed and subsequently heat-treated springs. The products are supplied in one of the heat-treatment conditions given for the different types of products in Table 1, lines 2 to 6, and in one of the surface conditions given in Table 2.</p> <p>In special cases, variations in these technical delivery requirements or additions to them may form the subject of an agreement at the time of enquiry and order (see annex A).</p> <p>In addition to the specifications of this standard, the general technical delivery requirements of EN 10021 are applicable.</p>
		TS EN 50347	General purpose three – Phase induction motors having Standard dimensions and outputs – Frame	<p>This EN 50347 covers general purpose standard dimensioned three-phase induction motors for 50 Hz with rated voltages not exceeding 690 V for industrial purposes having dimensions selected from IEC 60072-1. The range related with frame and flange</p>

			numbers 56 to 315 and flange numbers 65 to 740	numbers of these three phase induction motors are given as following: <ul style="list-style-type: none"> <li>- Frame numbers - shaft-heights : 56 mm to 315 mm</li> <li>- Flange numbers - pitch circle diameter of flange : 65 mm to 740 mm</li> </ul>
		TS EN 60454-3-12	Pressure-sensitive adhesive tapes for electrical purposes - Part 3: Specifications for individual materials - Sheet 12: Requirements for polyethylene and polypropylene film tapes with pressure-sensitive adhesive	This standard specifies the requirements for strips of polyethylene and polypropylene film with a pressure sensitive adhesive.  Materials conforming to this standard provide certain performance levels. However, not only this standard, but also the properties required to give adequate performance in the application in question should be taken into account when selecting the material for a particular application by the user.
		TS ISO 13754	Textile machinery and accessories – Hexagon nuts and slotted nuts for spinning and twisting spindles	This standard specifies the dimensions for hexagon nuts and slotted nuts for spindles used in spinning and twisting machines for textile yarns.
47.	Communique on Standard For Firearms-Shotguns With Smooth Bore For Hunting, Sport and Competition (TS 870) published in the Official Gazette No. 28677 of 4 June 2013 (Communique Number: MSG-MS-2013/14)	TS 870	Firearms-Shotguns with smooth bore for hunting, sport and competition	This standard covers the description, classification and characteristics, sampling, inspection and tests and the way of placing on the market of smooth-bore rifles used in hunting, sports and competitions, private and

				industrial areas. This standard does not cover rifled-shot and/or air rifles.
48.	Communique on Mandatory Standard published in the Official Gazette No. 21513 of 3 March 1993 (Communique Number: 93/23-24)	TS 919	Barit for oil well drilling - Fluid materials	This standard covers the barit used as additive to oil well-fluid. It does not cover the barit used in chemical and dyestuft industries.
49.	Decision of the Council of Ministers of 7 March 1972 No. 7/4065 published in the Official Gazette No. 14142 of 28 March 1972	TS 925	Friction Linings for Clutches (Metallic, Semimetallic and Metal-Ceramic)	This standard covers air friction linings for clutches made of metallic, semi-metallic and metal-ceramic materials. It does not cover friction coatings made of asbestos and other materials.
50.	Communique on Mandatory Standard published in the Official Gazette No. 21180 of 23 March 1992 (Communique Number: 91/118-119)	TS 968	Road Vehicles- Spark Plugs- Metric	This standard covers spark plugs with metric thread for use in spark-ignition internal combustion engines; It does not include glow plugs used in diesel engines, spark plugs used in aircraft engines and other special spark plugs.
51.	Communique on Mandatory Standard published in the Official Gazette No. 21631 of 8 July 1993 (Communique Number: 93/62-63)	TS 977	Bentonite as drilling fluid material	This standard covers the definition, classification and properties of sampling, inspection and tests and the way of placed on the market of bentonite used in drilling.
52.	Communique on Mandatory Standard published in the Official Gazette No. 22259 of 15 April 1995 (Communique Number: 95/14-15)	TS 977/T1		
53.	Communique on Mandatory Standard published in the Official Gazette No. 20199 of 18 June 1989 (Communique Number: FKS-85/116-116)	TS 1020	Raised Cheese Head, Cylindrical Head and Round	This standard covers raised cheese head, cylindrical head and round head bolts with metric thread.

54.	Communique on Mandatory Standard published in the Official Gazette No. 22180 of 23 January 1995 (Communique Number: 94/78-79)	TS 1020/T1	Head Bolts With Metric Tread	
55.	Communique on Standard For Square Head and T- Head Bolts With Metric Thread (for general purposes) published in the Official Gazette No. 30913 of 9 October 2019 (Communique Number: MSG-MS-/2019/28)	TS 1022	Square head and T- head bolts with metric thread (for general purposes)	This standard covers the definition, classification and properties of their inspection and tests and the way they are placed on the market of the square head and tee head bolts with metric threads.  This standard covers square head and tee head bolts with metric thread for general purposes.
56.	Communique on Standard For Screws and Bolts - Part 1: Slotted Countersunk Flat Head published in The Official Gazette No. 29793 of 6 August 2016 (Communique Number: MSG-MS-/2016/6)	TS 1023-1	Screws and bolts - Part 1: Slotted countersunk flat head	This standard; covers the—definition, classification, properties, sampling, inspection and tests, technical delivery conditions and the way of placing on the market of countersunk flat head screwdriver slotted bolts. It does not cover countersunk - flat head, screwdriver slotted bolts and aerospace bolts made of non-metallic materials.
57.	Communique on TS 1023-2 Standard For Screws and Bolts- Part 2: Raised Countersunk Head published in The Official Gazette No. 29837 of 6 August 2016 (Communique Number: MSG-MS-/2016/12)	TS 1023-2	Screws and bolts - Part 2: Raised countersunk head	This standard covers the definition, classification and properties, inspection and tests and the way of placing on the market of square head and tee head metric bolts. This standard covers square head and tee head metal bolts with metric thread for general purposes.
58.	Communique on TS 1023-3 Standard For Screws and Bolts- Part 3: Flat Countersunk	TS 1023-3	Screws and bolts- Flat countersunk	This standard covers the description, classification and properties of sampling,

	Head-With Square Neck published in The Official Gazette No. 29873 of 6 August 2016 (Communique Number: MSG-MS-/2016/13)		head-with square neck	inspection and tests, technical delivery conditions and the way of placing on the market of countersunk - flat head, square neck bolts with product quality C. It excludes countersunk made of non-metallic materials – flat head, square neck bolts and aerospace bolts.
59.	Communique on TS 1023-4 Standard For Screws and Bolts-Flat Countersunk Head-With Square Neck published in The Official Gazette No. 29873 of 6 August 2016 (Communique Number: MSG-MS-/2016/13)	TS 1023-4	Screws and bolts-Flat countersunk head with nib	This standard; covers the definition, classification, properties sampling, inspection and tests, technical delivery conditions and the way of placing on the market of flat countersunk head with nib screws and bolts. It does not cover flat countersink head with nibs made of non-metallic materials and aerospace bolts.
60.	Decision of the Council of Ministers of 24 January 1972 No. 7/3762 published in the Official Gazette No. 14156 of 11 April 1972	TS 1024	Grub Screws With Metric Thread	This Standard covers the definition, classification, properties, inspection and tests, placing on the market and inspection principles of grub screws with metric thread.
61.	Decision of the Council of Ministers No. FKS 84/5-5 published in the Official Gazette No. 18471 of 27 July 1984	TS 1025	Studs - Metric thread	This standard covers metric studs.
62.	Communique on Mandatory Standard published in The Official Gazette No. 22837 of 4 December 1996 (Communique Number: 96/125-126)	TS 1026-20	Fasteners-Hexagon Nuts-Section: 20, Rounded Acme Thread	This standard covers hexagon nuts with rounded acme thread.
		TS 1026-21	Fasteners-Hexagon Nuts-Section: 21-	This standard covers metric hexagon nuts with a height of 1.5 d with spherical bearing surface.



			With a Height of 1.5 d	
		TS 1026-33	Fasteners-Hexagon Thin Nuts-Section: 33 Product Grades A and B	This standard covers hexagon thin nuts with metric fine pitch thread.
		TS 1026-51	Fasteners-Hexagon Thin Castle Nuts- Section 51-With Metric Coarse and Fine Pitch Thread Product Grades A and B	This standard covers hexagon thin castle nuts with metric coarse and fine pitch thread.
		TS 1026-52	Fasteners-Hexagon Thin Castle Nuts- Section: 52 With Metric Coarse and Fine Pitch Thread- Product Grades A and B (Old Type)	This standard covers hexagon thin castle nuts with metric coarse and fine pitch thread.
		TS 1026-61	Fasteners-Hexagon Thin Slotted Nuts Section: 61-With Metric Coarse And Fine Pitch Thread- Product Grade A	This standard covers metric coarse and fine pitch thread hexagon thin slotted nuts.
		TS 1026-62	Fasteners-Hexagon Thin Slotted Nuts Section: 62-With Metric Coarse and	This standard covers metric coarse and fine pitch thread hexagon thin slotted nuts.

			Fine Pitch Thread- Product Grade A (01d Type)	
		TS 1026-76	Fasteners-Hexagen Nuts-Section:76- Prevailing Torgue Type Hexagon Nuts (With Non- Metallic Insert), Style 2-Property Classes 9 and 12- Product Grades A and B	This standard covers prevailing torque type, style 2, metric hexagon nuts with non metallic insert.
		TS 1026-78	Fasteners-Hexagon Nuts-Section:78- Prevailing Torgue Type With Flange (With Non- Metallic Insert) Property Classes 8,9,10 and 12 Product Grade A	This standard covers prevailing torque type flanged metric hexagon nuts with non metallic insert.
		TS 1026-83	Fasteners-Hexagon Nuts-Section:83 - Prevailing Torque Type All-Metal Hexagon Nuts, Style 2, Property Classes 9- Product Grades A and B	This standard covers prevailing torque type all-metal property class 9, style 2, metric hexagon nuts.

		TS 1026-90	Fasteners-Shouldered Hexagon Nuts-Section: 90 Metric Fine Pitch Thread-Metric Rounded Acme Thread-Product Grade B	This standard covers metric rounded acme fine pitch thread shouldered hexagon nuts.
		TS 1026-92	Fasteners-Hexagon Nuts-Section 92-Collar Nuts Metric Coarse Thread With A Height of 1.5 d	This standard covers metric coarse pitch thread hexagon nuts with collar, with a height of 1.5 d
		TS 1026-100	Fasteners-Hexagon Nuts-Section: 100-Cap Nuts With Metric Coarse and Fine Thread-Product Grade A	This standard covers metric coarse and fine pitch thread hexagon cap nuts.
		TS 1026-101	Fasteners-Hexagon Nuts-Section: 101-Domed Cap Nuts With Metric Coarse and Fine Pitch Thread-Product Grades A and B	This standard covers metric coarse and fine pitch thread hexagon domed cup nuts assigned to product grades A and B.
63.	Communique on TS 1026-50 Standard For Fasteners - Hexagon Slotted and Castle Nuts	TS 1026-50	Fasteners - Hexagon Castle	This standard; covers the description, classification and properties, sampling,

	- Part 50: Metric Coarse and Fine Pitch Thread - Product grades A and B published in The Official Gazette No. 31060 of 6 March 2020 (Communique Number: MSG-MS-2020/1)		Nuts Section: 50 With Metric Coarse and Fine Pitch Thread - Product Grades A and B	inspection and tests, and the way of placing on the market of hexagonal slotted and crowned nuts in product grade A (nominal thread diameter up to 16 mm) and in product quality B (nominal thread diameter greater than 16 mm), metric normal and fine pitch, thread nominal diameter from 4 mm to 100 mm.
64.	Communique on TS 1026-77 Standard For Fasteners - Hexagon nuts - Section: 77 - Metric coarse and fine pitch thread - Prevailing torque type hexagon domed cap nuts with non metallic insert - Product grades A and B published in The Official Gazette No. 30747 of 16 April 2019 (Communique Number: MSG-MS-/2019/14)	TS 1026-77	Fasteners - Hexagon nuts - Section: 77 - Metric coarse and fine pitch thread - Prevailing torque type hexagon domed cap nuts with non metallic insert - Product grades A and B	This standard covers the definition, classification and properties, sampling, inspection and testing and placing on the market of capped hexagon nuts with metric normal and fine pitch, non-metallic safety element, with nominal thread diameter of M4 to M20. The product quality of nuts with a nominal thread diameter of up to 16 mm is A, and the product quality of nuts with a nominal thread diameter of 20 mm is B.
65.	Communique on TS 1026-91 Standard For Fasteners - Hexagon nuts - Section 91: Weld nuts with metric coarse and fine pitch threads - Product grade A published in The Official Gazette No. 30874 of 31 August 2019 (Communique Number: MSG-MS-/2019//20)	TS 1026-91	Fasteners - Hexagon nuts - Section 91: Weld nuts with metric coarse and fine pitch threads - Product grade A	This standard covers the definition, classification and properties, sampling, inspection and experiments and the way of placing on the market of hexagon nuts with product quality A, used by welding with metric normal pitch in nominal sizes from M3 to M16 and with metric fine pitch screw thread in nominal sizes from M8 to M16.  Nuts used by welding specified in this standard are suitable for connection with

				<p>bolts whose strength class is less than 8.8 according to TS EN ISO 898-1.</p> <p>This standard does not cover flanged hexagon nuts used by welding to the part specified in TS EN ISO 21670.</p> <p><b>NOTE</b> - In this standard text, only the word "nut" is used instead of the expression "hexagonal nut with product quality A, metric normal and fine pitch, used by welding".</p>
66.	Communique on TS 1027 Standard For Knurled Thumb Screws With Metric Thread published in The Official Gazette No. 30916 of 12 October 2019 (Communique Number: MSG-MS-/2019/27)	TS 1027	Knurled Thumb Screws With Metric Thread	This standard covers the description, classification and properties, sampling, inspection and tests and the way of placing on the market of knurled, metric screw bolts.
67.	Communique on TS 1029 Standard For Fasteners – Weld studs with metric threads published in The Official Gazette No. 30734 of 3 April 2019 (Communique Number: MSG-MS-/2019/1)	TS 1029	Fasteners - Weld studs with metric threads	<p>This standard covers the definition, classification and properties, sampling, inspection and tests and the way of placing on the market of metric screw studs welded on parts.</p> <p>This standard covers metric threaded studs for welding on parts.</p>
68.	Communique on TS 1030 Standard For Plugs with metric fine thread published in The Official Gazette No. 30747 of 16 April 2019 (Communique Number: MSG-MS-2019/15)	TS 1030	Plugs with metric fine thread	This standard covers the dimensions and technical delivery conditions of plugs with metric fine thread for closing threaded holes.
69.	Communique on TS 1031 Standard For Screw and washers assemblies – Assemblies	TS 1031	Screw and washers assemblies –	This standard covers the description, classification and its features, sampling,

	with coarse threaded screws and captive conical spring washer published in The Official Gazette No. 30766 of 6 May 2019 (Communique Number: MSG-MS-2019/2)		Assemblies with coarse threaded screws and captive conical spring washer	<p>inspection and tests, and the way of placing on the market of screw and washer assemblies containing bolts/screws of strength class 8.8 to 10.9 (including 10.9), with M2.5 to M12 normal thread and flat seating, and a non-dropping (fixed) conical, spring washer.</p> <p>Spring washers (given within the scope of TS 79-5) are intended to eliminate the loosening effect in bolted connections as a result of the assembly process.</p> <p>They cannot effectively prevent loosening of the joint under varying radial load and are therefore generally designed for use with short screws subjected to axial stress.</p> <p>Phillips screwdriver slotted screws are not suitable for head screws, screw and washer assemblies whose critical cross section is not in the threaded part of the body but in the head. For limitations on the use of these screws, the relevant product standards should be consulted.</p> <p><b>NOTE 1</b> - Standardized bolt/screw and washer combinations and related symbols are given in TS EN ISO 10644.</p>
70.	Communique on TS 1032 Standard For Wing screws with metric thread published in The Official Gazette No. 30642 of 31 December 2018 (Communique Number: MSG-MS-/2018/17)	TS 1032	Wing screws with metric thread	<p>This standard covers the description, classification and properties, sampling, inspection and tests and forms of placing on the market of screws with product grade C, M4 to M24 rounded butterfly head and M4 to M12 square butterfly head, metric thread,</p>

				made of malleable cast iron, steel, austenitic steel or copper-zinc alloy.
71.	Communique on TS 1033 Standard For Special foundation bolts and nuts, metric published in The Official Gazette No. 30995 of 31 December 2019 (Communique Number: MSG-MS-/2019/37)	TS 1033	Special foundation bolts and nuts, metric	This standard covers the definition, classification and properties, sampling, inspection and testing and the way of placing on the market of bolts (special base bolts) and nuts (special base bolts) for M24 to M100×6 size anchoring.
72.	Communique on Mandatory Standard published in The Official Gazette No. 20483 of 5 April 1990 (Communique Number: 90/25-26)	TS 1034	Bolts Stone and Concrete Bolts With Metric Thread	This standard covers stone and concrete bolts with metric thread.
73.	Communique on TS 1035 Standard For Spring centre bolts with metric threads - For laminated springs published in The Official Gazette No. 30723 of 23 March 2019 (Communique Number: MSG-MS-/2019/7)	TS 1035	Spring centre bolts with metric threads - For laminated springs	This standard covers the definition, classification and properties, sampling, inspection and tests and the way of placing on the market of metric spring centre bolts used in the centering fixation of leaf springs in road vehicles.  This standard covers metric screw bolts used for centering fixation of leaf springs in road vehicles.
74.	Communique on TS 1036 Standard For Eye bolts, metric published in The Official Gazette No. 30995 of 31 December 2019 (Communique Number: MSG-MS-/2019/38)	TS 1036	Eye bolts, metric	This standard covers the definition, classification and properties sampling, inspection and tests and the way of placing on the market of M5 to M39 metric threaded hole head bolts in A, B and C product quality.
75.	Decision of the Council of Ministers of 2 June 1973 No. 7/6518 published in the Official Gazette No. 14577 of 27 June 1973	TS 1037	Spikes	This standard covers the tirphones shown in Sheet -1-7, which are generally used for connecting rails to wooden or concrete sleepers.

				It does not cover other types of screwed and variously shaped fasteners.
76.	Communique on Mandatory Standard published in The Official Gazette No. 24112 of 17 July 2000 (Communique Number: ÖSG-2000/91-92)	TS 1113 EN 10223-1	Steel wire and wire products for fences- Part 1: Zinc and zinc alloy coated steel barbed wire	This standard specifies zinc coated and zinc alloy coated steel barbed wire conventional and reserve twist consisting of two standard line wires, around which the barbes are tightly waund a twist being imported between the barbes to restrict their movement.
77.	Communique on TS 1143 Standard For Internal combustion engines – Piston rings made of cast iron published in The Official Gazette No. 30723 of 23 March 2019 (Communique Number: MSG-MS-/2019/6)	TS 1143	Internal combustion engines – Piston rings made of cast iron	This standard covers compression rings and one-piece unsprung oil rings made of cast iron with nominal diameters from 30 mm to 200 mm (inclusive) used in internal combustion engine pistons. This standard does not cover other segments other than those mentioned above.
78.	Decision of the Council of Ministers No. 7/9262 of 6 January 1975 published in the Offical Gazette No. 15266 of 15 June 1975	TS 1380	Galvanized (Zinc Coated) Tie Wires (For Overhead Lines)	This standard covers galvanized steel tie wires to tie telegraph, telephone and signal overhead lines to insulators. It does not cover galvanized steel wires used for other purposes.
79.	Communique on Standard For Screws and Bolts-Flat Countersunk Head-With Square Neck (TS 1440) published in The Official Gazette No. 28342 of 3 July 2012 (Communique Number: MSG-MS-/2012/16)	TS 1440	Cylindrical helical springs made from round wire - Cold coiled compression springs - General requirements	This standard specifies the dimensions of compression springs made of steel or copper alloy round wire, shown in Figure 3 and Figure 4, as well as the dimensions specified in Table 1 and Table 2, by coiling in cold condition.
80.	Communique on TS 1441-1 Standard For Springs - Quality requirements - Cylindrical helical compression springs - Part 1: Made from round wire and rods, hot formed and TS	TS 1441-1	Springs - Quality requirements - Cylindrical helical compression	This standard covers the description, classification and properties, sampling, inspection and tests, and the way of placing on the market of hot rolled cylindrical-helical



	1441-2 Standard For Cylindrical coil compression springs made from round rods - Part 2 : Quality requirements for mass production published in The Official Gazette No. 31109 of 25 April 2020 (Communique Number: MSG-MS-/2020/31)		springs - Part 1: Made from round wire and rods, hot formed	<p>compression springs made of circular cross-section bar.</p> <p>The permissible deviations specified in this standard apply to helical compression springs which satisfy the following conditions:</p> <ul style="list-style-type: none"> <li>- lot size up to 5000 pieces</li> <li>- rod or wire diameter <math>d</math> 8 to 60 mm</li> <li>- external coil diameter <math>D_e</math> smaller or equal to 460 mm</li> <li>- length of unloaded spring <math>L_0</math> smaller or equal to 800 mm</li> <li>- number of active turns <math>n</math> greater or equal to 3</li> <li>- coiling ratio <math>w</math> 3 to 12</li> </ul> <p>In case the lot size is 5000 pieces or more, TS 1441-2 is applied.</p>
		TS 1441-2	Cylindrical coil compression springs made from round rods - Part 2 : Quality requirements for mass production	<p>This standard covers the description and tests of cylindrical helical compression springs, produced in series from round bar.</p> <p>Springs covered by this standard are mainly used in vehicle suspensions.</p> <p><b>NOTE</b> - Vehicle suspension springs are generally mass-produced on a large scale and on automated production lines. Therefore, manufacturing tolerances are narrower than TS 1441-1.</p>

				<p>The permissible deviations quoted are valid for cylindrical coil compression springs which satisfy the following conditions:</p> <ul style="list-style-type: none"> <li>- Large-scale production, minimum lot size 5000 pieces</li> <li>- rod length <math>l</math> up to 4300 mm</li> <li>- rod diameter <math>d</math> 9 to 18 mm</li> <li>- length of unloaded (free length) spring <math>L_0</math> up to 600 mm</li> <li>- external coil diameter <math>D_e</math> up to 180 mm</li> <li>- number of active turns <math>n</math> from 5 to 12</li> <li>- spring index <math>w</math> 6 to 12</li> <li>- Total spring deflection <math>s_c</math> 180 mm and more.</li> </ul> <p>In cases where the lot size is 5000 pieces or more, TS 1441-2 is applied.</p>
81.	Decision of the Council of Ministers No. 10554 of 21 August 1975-7 published in the Official Gazette No. 15424 of 26 November 1975	TS 1442	Helicel Tension Springs Made of Round Wire Cold Coiled	This standard covers helical tension springs made of round wire cold coiled.
82.	Communique on Mandatory Standard published in The Official Gazette No. 19772 of 1 April 1988 (Communique Number: FKS-88/30-30)	TS 1442 (Amendment)		
83.	Communique on Mandatory Standard published in The Official Gazette No. 23014 of 9 June 1997 (Communique Number: 97/21-22)	TS 1459	Glass Insulators For OverHead Power Lines With Nominal Voltages Up To 1000 Volts	This standard applies to glass insulators for overhead power lines with a nominal voltages up to 1000 volts (1000 volts included). It does not cover insulators used in telegraph and telephone lines and insulators used at voltages higher than 1000 V.

			(1000 Volts Included)	
84.	Decision of the Council of Ministers of 8 August 1975 No. 7/10512 published in the Official Gazette No. 15439 of 11 December 1975	TS 1846	Hoses For Liquefied Petroleum Gases and City Gas	This standard specifies requirements for hoses made of rubber or plastics for city gas, and for liquefied petroleum gases up to a maximum pressure of 500 mm of water column. It does not include compressed oxygen, acetylene, liquefied petroleum gases and other gas hoses with operating pressure exceeding 500 mm SS, reinforced with cotton, synthetic or equivalent strength yarn, woven cloth or braid layer, or reinforced with steel or other metal wire and made in different ways with different materials.
85.	Communique on Mandatory Standard published in The Official Gazette No. 19137 of 17 June 1986 (Communique Number: FKS-86/58-59)	TS 1846 (Amendment)		
86.	Decision of the Council of Ministers No. 10529 of 8.8.1975-7 published in the Official Gazette No. 15432 of 4 December 1975	TS 1847	Connecting Wires (For Use In Television Receivers)(For a Rated Voltage of 20 kV and 25 kV D.C. and A Maximum Working Temperature of 105 Degree	This standard covers single core high voltage connection cables with thermoplastic insulation, resistant to direct voltage of 20 kV and 25 kV and an operating temperature of up to 105°C, especially used in television receivers, it does not cover other connection cables. This standard is also applied when the connecting cable is used in devices other than television receivers as specified in clause 0.2.2.
87.	Communique on TS 1879 Standard For Valves- for Tyres in The Official Gazette No.	TS 1879	Valves- for Tyres	This standard covers the description, classification and properties, inspection and

	30086 of 4 June 2017 (Communique Number: MSG-MS-/2017/2)			tests, the way of placing on the market and the inspection principles of the valves in tire tires of wheeled vehicles. This standard specifications Article 4.2 cited herein above and as shown in ISO 9413, for the inflation of tire valve covers made of metal and rubber. It does not cover valves used in aircraft tires.
88.	Communique on Mandatory Standard published in The Official Gazette No. 23749 of 8 July 1999 (Communique Number: ÖGS-99/52-53)	TS 1889	Shotgun Cartridges	This standard specifies shotgun cartridges used for shotguns in according to TS 870.
89.	Communique on Mandatory Standard published in The Official Gazette No. 26890 of 29 May 2008 (Communique Number: ÖGS-2008/08)	TS 1889/T4		
90.	Decision of the Council of Ministers of 15/01/1976 No. 7/11221 published in the Official Gazette No. 15569 of 25 April 1976	TS 1996	Tubular Heat Exchangers for Heating Purposes	This standard contains tubular heat exchangers for heating purposes max nominal pressure 40 bar and max operational temperature 25°C.
91.	Decision of the Council of Ministers No. 7/13072 of 21 December 1976 published in the Official Gazette No. 15957 of 5 June 1977.	TS 2024	Expulsion High-Voltage Fuses	This standard applies to high voltage expulsion fuses wiht rated voltage exceeding 1000 V at 50 Hz for outdoor and indoor use on a.c. power systems. It does not cover other types of high voltage fuses.
92.	Communique on Mandatory Standard published in The Official Gazette No. 24922 of 31 October 2002 (Communique Number: ÖSG-2002/62)	TS 2145	Centre drills for centre holes	This standard covers centre drills for drilling centre holes.

93.	Decision of the Council of Ministers No. 7/12876 of 12 December 1976 published in the Official Gazette No. 15853 of 17 February 1977.	TS 2220	Single-Phase Neutral-Earthing and Arc-Suppression Reactors	This standard covers one-phase neutral-to-earth and arc-extinguishing inductance coils used to connect the neutral point of transformers to earth to limit the earth fault current or to compensate for the capacitive current in a phase-to-earth fault in networks; The series does not include other types of inductance coils, such as three-phase inductance coils for shunt and neutral grounding.
94.	Decision of the Council of Ministers of 21 July 1976 No. 7/12481 published in the Official Gazette No. 15853 of 17 February 1977.	TS 2264	Piston Rings for Machines	This standard covers piston rings having nominal diameters between 18-1000 mm for machines. It does not cover the upper dimensioned segments and the segments in TS 1143.
95.	Communique on Mandatory Standard published in The Official Gazette No. 24395 of 7 May 2001 (Communique Number: ÖSG-2001/38-39)	TS 2337-1 EN ISO 2338	Parallel pins of unhardened steel and austenitic stainless steel	This standard specifies the characteristics of parallel pins of unhardened steel and austenitic stainless steel with nominal diameters d from 0.6 mm to 50 mm inclusive.
		TS 2337-2 EN ISO 8733	Parallel pins with internal thread of unhardened steel or austenitic stainless steel	This standard specifies the characteristics of parallel pins with internal thread of unhardened steel and austenitic stainless steel with nominal diameters from 6 mm to 50 mm inclusive.
		TS 2337-3 EN ISO 8734	Parallel pins of hardened steel or martensitik	This standard specifies the characteristics of cylindrical pins (retaining pins) of a nominal diameter of $1 \leq d_1 \leq 20$ mm, made of steel or

			stainless steel (dowel pins)	martensitic stainless steel, surface or wholly hardened.
		TS 2337-4 EN ISO 8735	Parallel pins with internal thread of hardened steel or martensitic stainless steel	This standard specifies the requirements for cylindrical pins with a nominal diameter of $6 \leq d_1 \leq 50$ mm, partially threaded internally, wholly or surface-hardened, made of steel or martensitic stainless steel.
		TS 2337-5 EN 22339	Taper pins unhardened	This Standard specifies the requirements for unhardened tapered pins with a nominal diameter of $0.6 \leq d_1 \leq 50$ mm in metric dimensions.
		TS 2337-6 EN 28736	Taper pins with internal thread unhardened	This Standard specifies the requirements for partially threaded, unhardened, taper pins internally with metric dimensions and nominal diameters $6 \leq d_1 \leq 50$ mm.
		TS 2337-7 EN 28737	Taper pins with external thread unhardened	This Standard specifies the requirements for externally partially threaded non-hardened tapered pins with metric dimensions and nominal diameters of $5 \leq d_1 \leq 50$ mm.
		TS 2337-9 EN ISO 8739	Grooved pins - Full-Length parallel grooved with pilot	This Standard specifies the characteristics of pins with a nominal diameter of $1.5 \text{ mm} \leq d_1 \leq 25$ mm, made of steel or austenitic stainless steel, with three equally spaced longitudinal threads on the outer surface, tapered to facilitate fitting, and threaded along the length.  The diameter $d_2$ , which is formed by the displaced material during the opening of the grooves and is larger than the nominal

				diameter $d_1$ , provides temporary locking when it is forced into the drilled hole equal to the nominal diameter $d_1$ .
		TS 2337-10 EN ISO 8740	Grooved pins - Full-Length parallel grooved with chamfer	<p>This standard specifies the characteristics of pins with a nominal diameter of <math>1.5 \leq d_1 \leq 25</math> mm, made of steel or austenitic stainless steel, with three equally spaced longitudinal threads on the outer surface, chamfered at the end to facilitate fitting, and threaded along the length.</p> <p>Diameter <math>d_2</math>, formed by the displaced material on each side of the threads and larger than the nominal diameter <math>d_1</math>, provides temporary locking when forced into the hole drilled equal to the nominal diameter <math>d_1</math>.</p>
		TS 2337-11 EN ISO 8741	Grooved pins - Half-Length reserve - Taper grooved	<p>This standard specifies the characteristics of pins with a nominal diameter of <math>1.5 \leq d_1 \leq 25</math> mm, made of steel or austenitic stainless steel, with three equally spaced longitudinal grooves on the outer surface, reverse-tapered up to half the length.</p> <p>Diameter <math>d_2</math>, formed by the displaced material on each side of the threads and larger than the nominal diameter <math>d_1</math>, provides temporary locking when forced into the hole drilled equal to the nominal diameter <math>d_1</math>.</p>
		TS 2337-12 EN ISO 8742	Grooved pins - One-Third-Length centre prooved	This Standard specifies the requirements for pins with a nominal diameter of $1.5 \leq d_1 \leq 25$ mm, made of steel or austenitic stainless steel, with three equally spaced longitudinal

				<p>grooves on the outer surface, and threaded in the middle one third of their length.</p> <p>Diameter <math>d_2</math>, formed by displaced material on each side of the splines and having a nominal diameter greater than <math>d_1</math>, provides temporary locking when forced into the hole drilled equal to the nominal diameter <math>d_1</math>.</p>
		TS 2337-13 EN ISO 8743	Grooved pins - Half-Length centre grooved	<p>This Standard specifies the requirements for pins with a nominal diameter of <math>1.5 \leq d_1 \leq 25</math> mm, made of steel or austenitic stainless steel, with three equally spaced longitudinal grooves on the outer surface, and half-length grooved pins in the middle.</p> <p>Diameter <math>d_2</math>, formed by displaced material on each side of the splines and having a nominal diameter greater than <math>d_1</math>, provides temporary locking when forced into the hole drilled equal to the nominal diameter <math>d_1</math>.</p>
		TS 2337-14 EN ISO 8744	Grooved pins - Full-Length taper grooved	<p>This Standard specifies the requirements for pins with a nominal diameter of <math>1.5 \leq d_1 \leq 25</math> mm, made of steel or austenitic stainless steel, with three equally spaced longitudinal grooves on the outer surface, and half-length grooved pins in the middle.</p> <p>Diameter <math>d_2</math>, formed by displaced material on each side of the splines and having a nominal diameter greater than <math>d_1</math>, provides temporary locking when forced into the hole drilled equal to the nominal diameter <math>d_1</math>.</p>



		<p>TS 2337-15 EN ISO 8745</p>	<p>Grooved pins- Half- Length taper grooved</p>	<p>This Standard specifies the requirements for pins with a nominal diameter of <math>1.5 \leq d_1 \leq 25</math> mm, made of steel or austenitic stainless steel, with three equally spaced longitudinal grooves on the outer surface, tapered halfway to the length.</p> <p>Diameter <math>d_2</math>, formed by displaced material on each side of the splines and having a nominal diameter greater than <math>d_1</math>, provides temporary locking when forced into the hole drilled equal to the nominal diameter <math>d_1</math>.</p>
		<p>TS 2337-16 EN ISO 8746</p>	<p>Grooved pins with round head</p>	<p>This Standard specifies the characteristics of round-head threaded pins with a nominal diameter of <math>1.4 \leq d_1 \leq 20</math> mm and three equally spaced longitudinal threads on the outer surface.</p> <p>Diameter <math>d_2</math>, formed by displaced material on each side of the threads and having a nominal diameter greater than nominal diameter <math>d_1</math>, provides temporary locking when forced into the hole drilled with a nominal diameter equal to <math>d_1</math>.</p>
		<p>TS 2337-17 EN ISO 8747</p>	<p>Grooved pins with countersunk head</p>	<p>This Standard specifies the characteristics of round-head threaded pins with a nominal diameter of <math>1.4 \leq d_1 \leq 20</math> mm and three equally spaced longitudinal threads on the outer surface.</p> <p>Diameter <math>d_2</math>, formed by displaced material on each side of the threads and having a nominal</p>

				diameter greater than nominal diameter $d_1$ , provides temporary locking when forced into the hole drilled with a nominal diameter equal to $d_1$ .
96.	Communique on TS 2337-8 Standard For Pins – Part 8: Taper pins with metric threaded ends and constant taper lengths published in The Official Gazette No. 30968 of 4 December 2019 (Communique Number: MSG-MS-/2019/19)	TS 2337-8	Pins - Part 8: Taper pins with metric threaded ends and constant taper lengths	This standard covers the dimensions and technical delivery conditions of taper pins with a nominal diameter of $5 \text{ mm} \leq d_1 \leq 50 \text{ mm}$ , non-hardened, with metric threads to the end and constant taper length.
97.	Communique on TS 2337-18 Standard For Pins - Part 18: Grooved pins- Half- Length grooved with gorge published in The Official Gazette No. 31047 of 22 February 2020 (Communique Number: MSG-MS-/2020/20)	TS 2337-18	Pins - Part 18: Grooved pins- Half- Length grooved with gorge	This standard specifies the dimensions and technical order specifications of cambered pins with a nominal diameter of $1.5 \text{ mm} \leq d_1 \leq 25 \text{ mm}$ , three equal intervals on the outer surface, longitudinally chamfered to half the length. These pins are tightly threaded into the locating hole with tolerance of H11, securing retaining rings, retaining washers, springs, etc. It is designed to hold the hitch. Pins covered by this standard; They are divided into splined pins (Type A) for holding retaining rings, splined pins (Type B) for retaining washers, and rounded splined pins (Type C).  <b>NOTE</b> - Tolerance class H11 is recommended for the holes the pin goes into (pins conforming to TS EN ISO 8750).
98.	Communique on TS 2337-5 EN 22339/T1 Standard For Taper pins unhardened published in The Official Gazette No. 28468	TS 2337-5 EN 22339/T1	Taper pins unhardened	This Standard specifies the requirements for unhardened tapered pins with a nominal

	of 15 November 2012 (Communique Number: MSG-MS-/2012/36)			diameter of $0.6 \leq d1 \leq 50$ mm in metric dimensions.
99.	Communique on Mandatory Standard published in The Official Gazette No. 20503 of 24 September 1990 (Communique Number: 90/42-43)	TS 2638	Radio Frequency Cables (RF Cables)	This standard covers coaxial and twin conductor (flat) cables used in radio frequencies.  Cables used outside of radio frequencies are not covered by this standard. (For example, power cords, telephone cords).
100.	Decision of the Council of Ministers No. 7/15053 of 28 February 1978 published in the Official Gazette No. 16264 of 19 April 1978	TS 2755	Transmission Chains and Sprockets Bush Chain Precision, Short Pitch	This standard covers precision, short pitch chains with bushings and sprockets with a pitch of 6.35 mm and 9.525 mm.
101.	Communique on Mandatory Standard published in The Official Gazette No. 25242 of 27 September 2003 (Communique Number: ÖSG-2003/79)	TS 2792	Textiles - Cotton corduroy fabric - For apparel use	This standard covers the cotton corduroy fabric for apparel use, which is described in Article 0.2.1.
102.	Communique on TS 2793 Textile - Wool Woven Fabrics - Used in Outerwear - Properties published in The Official Gazette No. 30734 of 3 April 2019 (Communique Number: MSG-MS-/2019/10)	TS 2793	Textiles - Woolen woven fabrics - For use in outerwear - Specifications	This standard covers the description, properties, sampling, inspection and tests and the way of placing on the market of woolen woven fabrics used in outerwear.  This standard does not cover fabrics used in clothing accessories and for decoration.
103.	Communique on Mandatory Standard published in The Official Gazette No. 20342 of 14 November 1989 (Communique Number: FKS-89/72-73)	TS 2816	Low Frequency Cables and Wires With PVC Insulation and PVC Sheat Distrubition Wires With Solid	This standard applies to PVC insulated in pairs triples, quadruples and quintuples low frequency cables and wires with solid conductors inside buildings and in distribution cabinets for connecting terminals on equipment frames or apparatus to one another or to distribution frames,

			Conductors, PVC Insulated in Pairs, Triples, Quads and Quintuples	interconnection between subscriber's lines of telegraph or telephone, and for temporary installations.
104.	Communique on Mandatory Standard published in The Official Gazette No. 20335 of 7 November 1989 (Communique Number: FKS-89/73-74)	TS 2817	Low-frequency cables and wires with PVC insulation and PVC sheathed equipment wires and cables with solid or stranded conductors, PVC insulated, screened, single or one pair	This standard covers sheathed single or pair in-device connecting wires and cables for internal connections in transmission equipment, telephone and telegraph equipment, and data processing devices.
105.	Communique on Mandatory Standard published in The Official Gazette of 27 November 1989 No. 20355. (Communique Number: FKS-89/74-75)	TS 2818	Low-frequency cables and wires with PVC insulation and PVC sheath (signalling cables in singles for telecommunication equipment and installation)	This standard covers PVC insulated and PVC protective sheathed single signaling cables used to connect indoor devices and facilities such as transmission and signaling devices, telephone and telegraph devices, data processing devices.
106.	Communique on Mandatory Standard published in The Official Gazette No. 20343 of 15 November 1989 (Communique Number: FKS-89/75-76)	TS 2819	Low-frequency cables and wires with PVC insulation and pvc sheath (distribution	This standard applies to PVC insulated, polyamide coated, in singles, pairs triples, quadruples and quintuples low frequency cables and wires with solid conductors inside buildings for connections terminals on

			wires with solid conductors, PVC insulated, polyamide coated, in singles, pairs, triples, quads and quintuples)	equipment frames or apparatus to one another or to distribution frames, interconnection between subscriber's lines of telegraph or telephone, and for temporary installations.
107.	Communique on TS 3034 Standard For Road vehicles - Suspension systems - Shock absorbers published in The Official Gazette No. 29873 of 23/05/2014 (Communique Number: MSG-MS-/2014/4)	TS 3034	Road vehicles - Suspension systems - Shock absorbers	This standard covers the description, classification and characteristics sampling, inspection and tests and the way of placing on the market of telescopic and strut shock absorbers used at suspension systems of road vehicles. This standard does not cover steering, trunk, hood and pedal shock absorbers that are not included in the suspension system of road vehicles.
108.	Communique on TS 3034/T1 Standard For Road vehicles - Suspension systems - Shock absorbers published in The Official Gazette No. 30069 of 17 May 2017 (Communique Number: MSG-MS-/2017/7)	TS 3034/T1		
109.	Decision of the Council of Ministers No. 7/16093 of 16 July 1978 published in the Official Gazette No. 16444 of 24 October 1978	TS 3039	High -Voltage Alternating-Current Circuit - Breakers (For General Use)	This standard applies to a.c circuit breakers designed for indoor or outdoor installation and for operation at frequencies up to and including 60 Hz on systems having voltages above 1000 V.
110.	Decision of the Council of Ministers No. 7/16265 of 7 August 1978 published in the Official Gazette No. 16433 of 13 October 1978	TS 3144	Steam Trap	This standard, contains bellow type steam traps maximum nominal pressure 10 bar, maximum operational temperature 200°C used steam heating systems.
111.	Communique on Mandatory Standard published in The Official Gazette No. 22885	TS 3364	Non-Aging Steels	This standard covers the steels which are not aged and outside the steel casting.

	of 22 January 1997 (Communique Number: 96/120-121)	TS 4696	Cold rolled steel strips for springs	<p>This standard covers cold rolled steel strips for springs.</p> <p>This standard does not cover hot rolled steel strips which can be tempered, spring wires drawn from non-alloy steels by applying patent annealing, spring wires and valve spring wires manufactured from non-alloy steels, spring wires and spring strips made of stainless steels, and heat-resistant steel strips for springs.</p>
112.	Communique on Mandatory Standard published in The Official Gazette No. 18572 of 11 November 1984 (Communique Number: FKS-84/19-20)	TS 3542	High voltage fuses for the external protection of shunt power capacitors	This standard applies to external fuses with high voltage shunt power capacitors together with breaking and closing devices without re-ignition for use on alternating current systems of 50 Hz.
113.	Communique on Mandatory Standard published in The Official Gazette No. 21290 of 20 July 1992 (Communique Number: 92/88-89)	TS 3579	Manual blowpipes for welding and cutting	This standard contains manual blowpipes for welding and cutting by using mixture of fuel gas and oxygen.
114.	Decision of the Council of Ministers No. 8/4063 of 21 December 1981 published in the Official Gazette No. 17652 of 2 April 1982	TS 3582		
115.	Communique on Mandatory Standard published in The Official Gazette No. 24459 of 11 July 2001 (Communique Number: ÖSG-2001/66-67)	TS 3582/T1	Antifreeze (Engine coolant concentrate)	This standard covers antifreeze (engine coolant concentrate) used in cooling systems of internal combustion engine.
116.	Communique on Mandatory Standard published in The Official Gazette No. 24697	TS 3582/T2		

	of 16 March 2002 (Communique Number: ÖSG-2002/15)			
117.	Communique on Mandatory Standard published in The Official Gazette No. 18245 of 11 December 1983 (Communique Number: FKS-83/4-24)	TS 3589	High Voltage Switches - A.C. Switches of Rated Voltage Above 1 kV	This standard applies to three phase alternating current switches and switch-disconnectors designed for indoor and outdoor installation for rated voltages above 1000 V and power frequencies up to 60 Hz.
		TS 3876	Cotton holder	This standard covers the cotton holder. It does not cover the cotton holder for laryngeal examination and/or operation.
118.	Communique on Mandatory Standard published in The Official Gazette No. 15179 of 25 July 2003 (Communique Number: ÖSG-2003/68)	TS 3778 EN 1783	Matches - Performance requirements, safety and classification	<p>This standard specifies requirements for the safety performance classification and marking of matches together with their match containers, available to the general public free of charge or in return for payment.</p> <p>This standard also covers the following:</p> <ul style="list-style-type: none"> <li>- Necessary tests to determine conformity to the required specifications,</li> <li>- Sampling to select individual matchsticks and their containers for testing,</li> <li>- Acceptable quality level for matchsticks and their containers in a sample.</li> </ul>
119.	Communique on Mandatory Standard published in The Official Gazette No. 25328 of 26 December 2003 (Communique Number: ÖSG-2003/93)	TS 3782 EN 13206	Covering thermoplastic films for use in agriculture and horticulture	This standard concerns transparent and diffusing plastic films based on polyethylene and/or ethylene copolymers which are designed to be used as covers for permanent and temporary greenhouses for forcing and

				<p>semi-forcing vegetable, fruit and flower crops.</p> <p>This standard is intended to establish the basic requirements for the physical and mechanical characteristics of various types of film.</p> <p>From a detailed consideration of the different covering plastics films used in agriculture and horticulture in the European market, different types of film are considered, according to the application, independently of the colour:</p> <ul style="list-style-type: none"> <li>- normal film</li> <li>- thermic clear film</li> <li>- thermic diffusing film</li> </ul> <p>The range of thicknesses considered is from 50 µm up to more than 200 µm.</p>
120.	Communique on Standard For Screws and Bolts-Flat Countersunk Head-With Square Neck (TS 3794) published in The Official Gazette No. 28432 of 5 October 2012 (Communique Number: MSG-MS-/2012/22)	TS 3794	Assembly tools for screws and nuts - Requirements for box (ring) and combination wrenches	This standard covers box ring, flare nut and combination wrenches for tightening and dismantling bolts and nuts and also covers the rules related their dimensions of width specified in the leaflets of the annex and in the relevant standards.
121.	Communique on Mandatory Standard published in The Official Gazette No. 18471 of 27 July 1984 (Communique Number: FKS-84/1-1)	TS 3796	Wrenches, for screws, nuts and pipes, adjustable, metric	This standard covers adjustable metric wrenches for pipes, bolts and nuts. This standard does not cover swedish pattern wrenches for pipes.



		TS 3947	Towel Clamp- Medical Use	This standard covers the towel clamps for medical use.
		TS 4035	Eustachian Catheter	This standard covers the eustachian catheter.
122.	Communique on Mandatory Standard published in The Official Gazette No. 18680 of 28 February 1985 (Communique Number: FKS-85/48-51)	TS 3796/Amendment	Wrenches, for screws, nuts and pipes, adjustable, metric	This standard covers adjustable metric wrenches for pipes, bolts and nuts. This standard does not cover swedish pattern wrenches for pipes.
123.	Communique on Mandatory Standard published in The Official Gazette No. 24063 of 29 May 1996 (Communique Number: ÖSG-2000/58-59)	TS 3796/Amendment		
124.	Communique on Mandatory Standard published in The Official Gazette No. 26608 of 4 August 2007 (Communique Number: ÖSG-2007/21)	TS 3797	Assembly tools for screws and nuts - Socket wrenches - Male	This standard covers the male sockets wrenches for tightening and dismantling bolts and nuts and includes dimensions of width across flats given in the sheets of this standard.
125.	Communique on TS 3798 Standard For Hook wrenches – Metric published in The Official Gazette No. 37066 of 6 May 2019 (Communique Number: MSG-MS-/2019/13)	TS 3798	Hook wrenches - Metric	This standard covers the definition, classification and properties, sampling, inspection and tests and the way placed on the market of metric hook wrenches used for fitting and similar parts. This standard covers metric wrenches used for tightening or dismantling of fitting and similar parts.
126.	Communique on Mandatory Standard published in The Official Gazette No. 18952 of 8 December 1985 (Communique Number: FKS-85/123-126)	TS 4211	Glass Feeding Bottles	This standard covers glass feeding bottles, bracelets and discs.

127.	Communique on Mandatory Standard published in The Official Gazette No. 21921 of 1 May 1994 (Communique Number: 94/31-32)	TS 4211/T1				
128.	Communique on Mandatory Standard published in The Official Gazette No. 24728 of 16 April 2002 (Communique Number: ÖSG-2002/23)	TS 4211/T2				
129.	Communique on Mandatory Standard published in The Official Gazette No. 18952 of 8 December 1985 (Communique Number: FKS-85/125-128)	TS 4269	Rubber Teats for Feeding Bottles	This standard covers the rubber teats of feeding bottles.		
130.	Communique on Mandatory Standard published in The Official Gazette No. 19207 of 31 August 1986 (Communique Number: FKS-86/71-72)	TS 4269 (Amendment)				
131.	Communique on Mandatory Standard published in The Official Gazette No. 21568 of 1 May 1993 (Communique Number: 93/44-45)	TS 4269/T2				
132.	Communique on Mandatory Standard published in The Official Gazette No. 23622 of 25 February 1999 (Communique Number: ÖSG-99/3-4)	TS 4269/T3				
133.	Communique on Mandotary Standard published in The Official Gazette No. 24728 of 16 April 2002 (Communique Number: ÖSG-2002/24)	TS 4269/T4				
134.	Communique on Mandatory Standard published in The Official Gazette No. 18688	TS 4341			High voltage connecting wire	This standard applies to high voltage wire insulated with thermoplastic material with a

	of 8 March 1985 (Communique Number: FKS-85/54-57)		with flame retarding insulation for use in television receivers	rated voltage up to and including 20 Kv D.C. and a maximum working temperature of 85°C
135.	Communique on Mandatory Standard published in The Official Gazette No. 19989 of 14 November 1988 (Communique Number: FKS-88/123-123)	TS 4341 (Amendment)		
136.	Communique on Mandatory Standard published in The Official Gazette No. 23311 of 12 April 1985 (Communique Number: 98/4-5)	TS 4507 ISO 1772	Laboratory crucibles in porcelain and silica	<p>This standard specifies requirements for an Internationally acceptable series of porcelain and silica crucibles and lids for general laboratory requirements.</p> <p><b>NOTES</b></p> <p>1- It is recognized that some sizes of crucible larger than those listed may be needed for use in laboratories for special purposes. It is recommended that such larger sizes should be designed within the general framework of this standard, i.e. by selecting a suitable multiple of 10 mm as the nominal external top diameter, and applying one of the three Standard ratios in Order to obtain the nominal height.</p> <p>2- This standard does not deal with laboratory crucibles made of materials other than porcelain and silica (for example, glass and other ceramic materials) Nevertheless, it is expected that the types, sizes and dimensions specified herein may provide useful guidance for those concerned with the manufacture or standardization of</p>

				crucibles made of such other materials, and that it may become possible to include them in this standard at some future date.
137.	Communique on Mandatory Standard published in The Official Gazette No. 18986 of 12 January 1986 (Communique Number: FKS-85/127-130)	TS 4522	Rubber gaskets - For domestic pressure cookers	This standard covers rubber gasgets for domestic pressure cookers. This standard does not apply to other gasgets.
138.	Communique on Mandatory Standard published in The Official Gazette No. 21240 of 27 May 1992 (Communique Number: 92/7-8)	TS 4544	School notebooks	This standard covers the school notebooks. It doesn't cover music notebooks and drawing books.
139.	Communique on Mandatory Standard published in The Official Gazette No. 21769 of 25 November 1993 (Communique Number: 93/87-88)	TS 4544/T1		
140.	Communique on Mandatory Standard published in The Official Gazette No. 22125 of 28 November 1994 (Communique Number: 94/67-68)	TS 4544/T2		
141.	Communique on Mandatory Standard published in The Official Gazette No. 23959 of 9 February 2000 (Communique Number: ÖSG-2002/21-22)	TS 4544/T3		
142.	Communique on Mandatory Standard published in The Official Gazette No. 23554 of 15 December 1998 (Communique Number: ÖSG-98/108-109)	TS 4544/T4		

143.	Communique on Mandatory Standard published in The Official Gazette No. 19884 of 30 July 1988 (Communique Number: FKS-88/93-93)	TS 4766	Porcelain mortar and pestle	This standard is about the porcelain mortar and the pestle for it.
144.	Communique on Mandatory Standard published in The Official Gazette No. 20457 of 10 March 1990 (Communique Number: 90/16-17)	TS 4766/T1		
145.	Communique on Mandatory Standard published in The Official Gazette No. 25048 of 14 March 2003 (Communique Number: ÖSG-2003/21)	TS 4812 EN 13046	Packaging - Flexible cylindrical metallic tubes - Dimensions and tolerances	This standard, specifies the diameter, length, wall thickness and shoulder geometry of cylindrical metallic collapsible tubes.  This standard is applicable to tubes used for packaging pharmaceutical, cosmetic, hygienic, food and other domestic and industrial products.
146.	Communique on Mandatory Standard published in The Official Gazette No. 19876 of 18 July 1988 (Communique Number: FKS-88/95-95)	TS 4850	Wires and strips, for electrical heating purpose	This standard covers wires and strips made of nickel-chromium, nickel-chromium-iron and iron-chromium-aluminium alloy by drawing for electrical heating purpose.
147.	Communique on Mandatory Standard published in The Official Gazette No. 19675 of 25 December 1987 (Communique Number: FKS-87/89-91)	TS 5101	Electrical heating elements metal tube sheathed	This standard applies to metal tube sheathed electrical heating elements used in all over the electrical appliances for heating purposes, with voltages up to 250 V.  This standard does not cover portable immersion electric heaters, aquarium heaters and aluminum sheathed heating elements.
148.	Communique on Mandatory Standard published in The Official Gazette No. 20830 of 30 March 1991 (Communique Number: 91/36-37)	TS 5101/T1		
149.	Communique on Mandatory Standard published in The Official Gazette No. 24493	TS 5104	Flush mounting boxes for switches for household and	This standard covers flush mounting boxes

	of 14 August 2001 (Communique Number: ÖSG-2001-85-86)		similar fixed electrical installations - Standard sheets	for switches for household and similar fixed electrical installations standard sheets.
150.	Communique on Mandatory Standard published in The Official Gazette No. 19867 of 9 July 1988 (Communique Number: FKS-88/79-79)	TS 5130	Copper-brazed double wall steel tubes	This standard covers copper-brazed double wall steel tubes.
151.	Communique on Mandatory Standard published in The Official Gazette No. 23976 of 26 February 2000 (Communique Number: ÖSG-2000/46-47)	TS 5598	Hot-Rolled steel sheet and strip coils (mild unalloyed)	This standard covers hot-rolled steel sheet and strip coils with a thickness of 1.5 mm-20 mm. This standard does not cover non-alloy mild steel coils suitable for enamel coating.
152.	Communique on Mandatory Standard published in The Official Gazette No. 20085 of 12 February 1989 (Communique Number: FKS-89/5-5)	TS 5600	Playing cards	This standard covers playing cards made of lacquered or plastic coated cardboard and plastic.
153.	Communique on Mandatory Standard published in The Official Gazette No. 20708 of 27 November 1990 (Communique Number: 90/79-80)	TS 5600/T1		
154.	Communique on Mandatory Standard published in The Official Gazette No. 20842 of 11 April 1991 (Communique Number: 91/51-52)	TS 5600/T2		
155.	Communique on Mandatory Standard published in The Official Gazette No. 21028 of 21 October 1991 (Communique Number: 109/110)	TS 5600/T3		

156.	Communique on Mandatory Standard published in The Official Gazette No. 21645 of 22 July 1993 (Communique Number: 93/74-75)	TS 5600/T4		
157.	Communique on Mandatory Standard published in The Official Gazette No. 22180 of 23 January 1995 (Communique Number: 94/77-78)	TS 5600/T5		
158.	Communique on Mandatory Standard published in The Official Gazette No. 24267 of 21 December 2000 (Communique Number: ÖSG-2000/110-111)	TS 5814	Lamp Chimney	This standard covers lamp chimnies used for lanterns in which LPG and similar fuels are consumed as fuels.
159.	Communique on Mandatory Standard published in The Official Gazette No. 20381 of 23 December 1989 (Communique Number: 89/88-89)	TS 5914	Polyvinyl chloride films for agriculture	This standard covers the specifications of polyvinyl chloride films used in agriculture.
160.	Communique on Mandatory Standard published in The Official Gazette No. 26619 of 20 August 2007 (Communique Number: ÖSG-2007/25)	TS 6053	Antennas - Used for the reception of television broadcast in the frequency range 30 MHz-1000 MHz - For outdoor applications – Not having integrated amplifier	This standard applies to outdoor antennas, not having integrated amplifier, which are used in frequency range 30 MHz - 1000 MHz and also related their description, classification and testing.  Active (with amplifier in its structure) antennas are not included in the scope of this standard.
		TS 6056	Antennas - Used for the Portable Radio and	This standard applies to telescopic antennas which are used for the portable radio and

			Television Receivers- Adjustable (telescopic)	television receivers and also related their description, classification and testing.
		TS 6057	Antennas - Used for car radios - Not having integrated amplifier	This standard applies to radio antennas used in cars and the other vehicles, not having integrated amplifier, and also related their description, classification and testing.  It does not cover the detachable whip part of the whip antenna, replaceable parts of motorized portable antennas and active audio radio receiver antennas.
161.	Communique on Mandatory Standard published in The Official Gazette No. 20330 of 2 November 1989 (Communique Number: FKS-89/57-58)	TS 6054	Antenna amplifiers for the reception of coice and television broadcast in the frequency range 30 MHz - 1000 MHz	This standard covers outdoor antennas used in the reception of television broadcasts in the frequency range 30 MHz-1000 MHz. Active (with amplifier in its structure) antennas are not included in the scope of this standard.
162.	Communique on Mandatory Standard published in The Official Gazette No. 24449 of 1 July 2001 (Communique Number: ÖSG-2001/54-55)	TS 6054/T1		
163.	Communique on Mandatory Standard published in The Official Gazette No. 20349 of 21 November 1989 (Communique Number: FKS-89/58-59)	TS 6055	Indoor Antennas for the reception of volice and television broadcast in the frequency range 30 MHz - 1000 MHz	This standard covers internal antennas used in the reception of radio and television broadcasts in the 30 MHz - 1000 MHz Frequency Region. Telescopic antennas for portable receivers are not covered by this standard.
164.	Communique on Mandatory Standard published in The Official Gazette No. 20847 of 19 April 1991 (Communique Number: 91/28-29)	TS 6055/T1		



165.	Communique on Mandatory Standard published in The Official Gazette No. 24449 of 1 July 2001 (Communique Number: ÖSG-2001/57-58)	TS 6055/T2		All kinds of internal active antennas are not covered by this standard.
166.	Communique on Mandatory Standard published in The Official Gazette No. 20346 of 18 November 1989 (Communique Number: FKS-89/62-63)	TS 6114		
167.	Communique on Mandatory Standard published in The Official Gazette No. 22159 of 2 January 1995 (Communique Number: 94/73-74)	TS 6114/T1	Flexible hoses end fittings and sockets for gas burning appliances	This standard specifies flexible hoses end fittings and sockets for connection of the domestic appliances burning first and second class gases up to 20 mbar working pressure.
168.	Communique on Mandatory Standard published in The Official Gazette No. 22385 of 25 August 1995 (Communique Number: 95/91-92)	TS 6114/T2		
169.	Communique on TS 6269 Standard For Rolling bearings - Single row, radial deep groove ball bearings published in The Official Gazette No. 29793 of 6 August 2016 (Communique Number: MSG-MS-2016/7)	TS 6269	Rolling bearings - Single row, radial deep groove ball bearings	This standard covers one row of ball, radial roller bearings with a bore diameter of 2.5 mm to (inclusive) 250 mm.  One row ball, angular contact, four point contact, shoulder, retaining ring, outer ring cambered bearings, thin section bearings, unidirectional rolling bearings, inner ring or outer ring two-piece bearings, phosphate or cadmium plated bearings, outer ring Cracked close-grain bearings, grooved bearings, non-cage bearings, flanged bearings, bearings with inner or outer ring or both rings made of plastic or polyamide material, Bearings whose inner ring or outer ring or both rings
170.	Communique on TS 6269/T1 Standard For Rolling bearings - Single row, radial deep groove ball bearings published in The Official Gazette No. 30530 of 9 September 2018 (Communique Number: MSG-MS-2018/13)	TS 6269/T1		
171.	Communique on TS 6269/T2 Standard For Rolling bearings - Single row, radial deep groove ball bearings published in The	TS 6269/T2		

	Official Gazette No. 31282 of 22 October 2020 (Communique Number: SGM-2020/8)			<p>are molded from sheet metal (e.g., clutch bearings, etc.), excludes stainless steel bearings and radial rolling bearings with balls of ceramic material, one or both rings of ceramic material or coated with ceramic material.</p> <p>In addition, it does not cover forklift bearings with very large radii on one corner of their outer rings, with different radii and roughness values compared to the standard, thrust bearings with non-standard dimensions (for example, clutch bearings, etc.), manufactured for different purposes, and whose outer surface or working surfaces are not grinded.</p> <p>This standard covers the definition, classification and properties sampling, inspection and tests and the way of placing on the market of single row, radial deep groove ball bearings.</p>
172.	Communique on Mandatory Standard published in The Official Gazette No. 20707 of 26 November 1990 (Communique Number: 90/87-88)	TS 6355	Natural gas meter connections-One pipe connection	This standard covers one pipe connections for bellows type natural gas meters.
173.	Communique on Mandatory Standard published in The Official Gazette No. 20862 of 5 May 1991 (Communique Number: 91/60-61)	TS 6945	A.C. Insulation - Enclosed Switchgear and Controlgear for Rated Voltages Above 1 kV and	This standard covers the a.c. insulation enclosed switchgear with rated voltages above 1 kV and up to and 38 kV (including 38 kV) and operating frequencies up to 60 Hz (including 60 Hz) with alternating current which are intended for use in the building.

			up to and Including 38 kV	<p>This standard does not cover components in insulating-enclosed installations for which special conditions are stipulated.</p> <p><b>NOTE 1</b> - In some countries, the highest device voltage is 40.5 kV.</p> <p><b>NOTE 2</b> - Switching and control facilities with metal enclosures are within the scope of TS 5248.</p> <p><b>NOTE 3</b> - Although insulating-enclosed installations with an insulating fluid other than atmospheric pressure air are within the scope of this standard, additional requirements may be required for these plant elements depending on their design.</p>
174.	Communique on Mandatory Standard published in The Official Gazette No. 20855 of 28 April 1991 (Communique Number: 91/45-46)	TS 7017	Road vehicles - Mopes - D.C. flasher units	This standard covers telescopic antennas used in portable radio and television receivers.
175.	Communique on Mandatory Standard published in The Official Gazette No. 20414 of 26 January 1990 (Communique Number: 89/119-120)	TS 7374	Lead-Acid batteries- Maintenance free, sealed, lead-Acid batteries for military uses	This standard covers the lead-acid batteries with a capacity of 12 V, 45 Ah - 12 V, 60 Ah - 12 V, 100 Ah maintenance free, sealed for military uses.
176.	Communique on Mandatory Standard published in The Official Gazette No. 20863 of 6 May 1991 (Communique Number: 91/47-48)	TS 7451	Dry-Type Power Transformers	This standard applies to dry-type power transformers (including autotransformers) having values of highest voltage for equipment up to and including 36 kV.

				<p>This standard does not cover</p> <ul style="list-style-type: none"> <li>- Single-phase transformers with a rated power less than 1 kVA and multi-phase transformers less than 5 kVA,</li> <li>- Measure transformers (TS 620, TS 718),</li> <li>- Transformers used in static converters,</li> <li>- Starting transformers,</li> <li>- Test transformers,</li> <li>- Traction transformers mounted on wheeled vehicles, flameproof transformers and transformers used in mining,</li> <li>- Welding transformers,</li> <li>- Voltage regulating transformers,</li> <li>- It does not cover transformers of small power, where safety is a special consideration.</li> </ul>
177.	Communique on Mandatory Standard published in The Official Gazette No. 25168 of 14 July 2003 (Communique Number: ÖSG-2003/66)	TS 7777	Women's pantyhose and stockings	This standard covers women's socks. This standard does not cover women's socks manufactured for health and sportive purposes.
178.	Communique on Mandatory Standard published in The Official Gazette No. 24466 of 18 July 2001 (Communique Number: ÖSG-2001/75-76)	TS 7843	Pipeline Valves, Steel [Gate, Plug Ball and Check Valves-Nominal Pressure From PN 20 (Included) Up to PN 420 (Included)]	This standard applies to gate, plug, ball valves made of steel with a nominal pressure (PN) of 20 to 420 and a nominal diameter of 65 mm and more, and for ball valves with a nominal diameter of 50 mm and larger, used in oil and natural gas pipelines. covers one-way (check valve) valves.

179.	Communique on Mandatory Standard published in The Official Gazette No. 23553 of 14 December 1998 (Communique Number: ÖSG:98/107-108)	TS 8542	Magnesite - For Refractory Uses	This Standard covers magnesite, one of the basic raw materials used in the production of various refractory materials. It does not cover magnesite used in other areas and magnesite produced from sea water.
180.	Communique on Mandatory Standard published in The Official Gazette No. 21293 of 23 July 1992 (Communique Number: 92/103-104)	TS 9550	Indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1000 V	This standard, covers; indoors post insulators of ceramic material or glass and with internal metal fittings, outdoor cylindrical post insulators of ceramic material or glass and with external metal fittings, and outdoor pedestal post insulators of ceramic materials or glass.
181.	Communique on Mandatory Standard published in The Official Gazette No. 21331 of 31 August 1992 (Communique Number: 92/108-109)	TS 9551	Indoor post insulators of organic material for systems with nominal voltages greater than 1000 V up to but not including 300 kV	This standard covers indoor post insulators of organic material with a rated voltage greater than 1000 V and up to 300 kV (excluding 300 kV) with a frequency not exceeding 100 Hz.
182.	Communique on TS 9809 Standard For Valves - Cast iron ball valves for combustible gases published in The Official Gazette No. 30470 of 6 July 2018 (Communique Number: MSG-MS-2018/1)	TS 9809	Valves - Cast iron ball valves for combustible gases	This standard, covers the ball valves made of cast iron with nominal diameters from DN 65 to DN 300 used in combustible gas pipelines such as LPG and natural gas.
183.	Communique on TS 9809/T1 Standard For Valves - Cast iron ball valves for combustible gases published in The Official Gazette No.	TS 9809/T1		This standard does not cover steel and copper alloy ball valves.

	31302 of 12 November 2020 (Communique Number: MSG-MS-2020/11)			It does not cover the type, materials and dimensions of the fasteners to be used according to the working conditions depending on the operating pressure classes and temperature, thermal fluctuations, etc.
184.	Communique on Mandatory Standard published in The Official Gazette No. 24461 of 13 July 2001 (Communique Number: ÖSG-2001/81-82)	TS 9876 EN 303-4	Heating Boilers - Part 4: Heating Boilers With Forced Draught Burners-Special Requirements For Boilers With Forced Draught Oil Burners With Outputs Up to 70 kW and a Maximum Operating Pressure of 3 Bar - Terminology Special Requirements Testing and Marking	<p>This standard is applicable to heating boilers with forced draught oil burners up to a nominal heat output of 70 kW.</p> <p>They are operated, either with negative pressure (natural draught boiler) or with positive pressure (pressurised boiler) in the combustion chamber, in accordance with the boiler manufacturer's instructions.</p> <p>This standard specifies the necessary terminology, the requirements on the materials and testing of them, and marking requirements for heating boilers.</p> <p>The boilers are suitable for open vented systems up to a maximum allowable pressure of 1 bar (class 1 pressure) and open and closed water systems up to a maximum allowable pressure of 3 bar (class 2 pressure).</p> <p>The boilers are capable of operating with either conventional flues or low level discharge flues as specified by the boiler manufacturer.</p> <p>The boilers are provided as matched units with factory fitted burners for burning kerosene or gas oil. When using a low level</p>

				<p>flue gas discharge only kerosene may be used (see annex B).</p> <p>The requirements of this standard apply to heating boilers which are tested on an authorised test rig in accordance with EN 304 and annex B of this standard.</p> <p>Boilers in accordance with this standard are designed for the heating of central heating installations in which the heat carrier is water, and the temperature of which is restricted to 95 °C at normal operating conditions. For boilers with a built-in or attached water heater (storage or continuous flow heater) this standard only applies to the parts of the water heater which are necessarily subject to the operating conditions of the heating boiler (heating part).</p> <p>This standard does not apply to gas boilers with atmospheric burners, boilers for solid fuels, oil or gas fired condensation boilers, boilers with oil vaporisation burners and low temperature boilers. For these boilers there are further requirements.</p> <p><b>NOTE</b> - Low temperature boilers are those operating with a (water) variable temperature up to 40 °C or less, or those which cannot be set at a temperature higher than 55 °C.</p>
185.	Communique on Mandatory Standard published in The Official Gazette No. 21532	TS 10624	Gas Pressure Regulators For	This standard covers gas pressure regulators without auxiliary energy adjusted to the fixed

	of 22 March 1993 (Communique Number: 93/24-25)		Combustible Gases (Natural Gas, City Gas LPG Gas) Supply Pressure Up To 0,4 MPa	outlet pressure for combustible gases (natural gas, city gas, and LPG in gaseous phase) to be installed in buildings or on fields within inlet pressure range 0,02 MPa-0,4 MPa (0,2 bar-4 bar), nominal diameter up to including DN 50 mm. This standard does not cover low pressure regulators specified in TS 1862.
186.	Communique on Mandatory Standard published in The Official Gazette No. 22609 of 12 April 1996 (Communique Number: 96/29-30)	TS 10624/T1 ve T2		
187.	Communique on Mandatory Standard published in The Official Gazette No. 24317 of 13 February 2001 (Communique Number: ÖSG-2001/2-3)	TS 10624/T3		
188.	Communique on Mandatory Standard published in The Official Gazette No. 21525 of 15 March 1993 (Communique Number: 93/26-27)	TS 10670	Flexible corrugated stainless steel tubes for gas burning appliances (up to 1.6 MPa)	This standard covers flexible, corrugated stainless steel tubes used for connecting of gas burning appliances with an operating pressure up to 1.6 MPa to the installation.
189.	Communique on Mandatory Standard published in The Official Gazette No. 23426 of 7 August 19983 (Communique Number: ÖSG-98/53-54)	TS 10670/T1		
190.	Communique on Mandatory Standard published in The Official Gazette No. 22660 of 8 June 1996 (Communique Number: 96/65-66)	TS 11187	Road vehicles - Bicycles - Tyres and rims - Tyres	This standard specifies requirements for bicycle tyres. This standard does not cover tubular tires of racing bicycles.
191.	Communique on Mandatory Standard published in The Official Gazette No. 22664 of 12 June 1996 (Communique Number: 99/64-65)	TS 11188	Road vehicles - Bicycles - Tyres and rims - Inner tubes	This standard specifies requirements for bicycle inner tubes. This standard does not cover specially manufactured inner tubes for tubular tires of racing bicycles.



192.	Communique on Mandatory Standard published in The Official Gazette No. 22660 of 8 June 1996 (Communique Number: ÖS96/63-64)	TS 11189	Road vehicles - motorbicycles, scooters and mopeds - tyres and rims inner tubes	This standard specifies requirements for inner tubes of motorbicycles, scooters and mopeds.
193.	Communique on Mandatory Standard published in The Official Gazette No. 24834 of 2 August 2002 (Communique Number: ÖSG-2002/45)	TS 11630	Fuel-Oil additives for improving burning quality	This standard covers fuel oil additives that improves burning quality.
194.	Communique on Mandatory Standard published in The Official Gazette No. 22373 of 13 August 1995 (Communique Number: 95/83-84)	TS 11654	0.6/1 kV Cables, Aerial Bundled Cable	This standard covers aerial bundled cables with plastic insulated aluminium phase conductors with a rated voltage of 0.6/1 kV.
195.	Communique on Mandatory Standard published in The Official Gazette No. 22374 of 14 August 1995 (Communique Number: 95/95-96)	TS 11672	District regulating stations for natural gas for input pressures 4 bar 25 bar	This standard covers district regulating systems for natural gas to be installed in buildings or on fields to control pressure of the natural gas distribution systems for input pressure range 4 bar-25 bar, mounted on guides or anchored on steel structure.
196.	Communique on Mandatory Standard published in The Official Gazette No. 23393 of 5 July 1998 (Communique Number: 98/42-43)	TS 11673	Pans - For food cooking - Used in industry (Made of Stainless Steels)	This standard covers industrial type stainless steel pans with the nominal capacity from 100 liters to 600 liters which are used in the large kitchens for food cooking or heating food, with direct and indirect heating from the electricity, gas or steam (maximum pressure up to 50 kPa).
197.	Communique on Mandatory Standard published in The Official Gazette No. 27721 of 6 October 2010 (Communique Number: ÖSG-2010/26)	TS 11673/T1		
198.	Communique on TS 11673 Standard For Pans - For food cooking - Used in industry (Made of Stainless Steels) published in The	TS 11673/T2		

	Official Gazette No. 28756 of 5 September 2013 (Communique Number: MSG-MS-/2013/23)			
199.	Communique on Mandatory Standard published in The Official Gazette No. 22373 of 13 August 1995 (Communique Number: 95/79-80)	TS 11692	Steam Cooking Pans - With Tilting Mechanism, and Used In Industry (Made of Stainless Steels)	<p>This standard covers nominal cooking volume of at least 30 liters and maximum 600 liters industrial type steam cooking pans with a tilting mechanism, having one or more number of non-pressure cooking volumes, double-walled in a steam jacket, steam powered with a maximum pressure up to 50 kPa used for cooking and/or heating food.</p> <p>This standard does not cover household type pressure cookers with non-pressure cooking volume and pressure cooking volume.</p>
200.	Communique on Mandatory Standard published in The Official Gazette No. 22442 of 23 October 1995 (Communique Number: 95/117-118)	TS 11790	Thermometers - with liquid, made of glass used for heating systems	<p>This standard covers the double-tube thermometers placed in a suitable casing pipe to protect from external mechanical impacts and used to measure the temperature of liquid fluids in heating systems such as boilers, heat exchangers etc.</p>
201.	Communique on Mandatory Standard published in The Official Gazette No. 22526 of 17 January 1996 (Communique Number: 95/126-127)	TS 11846	Textiles - Hand Knitting Yarns	<p>This standard covers hand knitting yarns made of wool, acrylic, viscose, mercerized cotton and synthetic blends containing at least 10% wool and/or mohair or made from a mixture of acrylic and polyamide or polyester.</p> <p>This standard does not cover machine knitting yarns and lace yarns.</p>
202.	Communique on Mandatory Standard published in The Official Gazette No. 22609 of 12 April 1996 (Communique Number: 96/19-20)	TS 11846/T1		
203.	Communique on Mandatory Standard published in The Official Gazette No. 22678	TS 11846 Time Extension		

	of 26 June 1996 (Communique Number: 96/71-72)			
204.	Communique on Mandatory Standard published in The Official Gazette No. 25095 of 1 May 2003 (Communique Number: ÖSG-2003/35)	TS 11846/T2		
205.	Communique on Mandatory Standard published in The Official Gazette No. 22865 of 2 January 1997 (Communique Number: 96/115-116)	TS 11917	Fasteners - Flat Hexagon Nuts For Nipples and Screw Heads For Electrical Tubular Heating Elements, Metal-Sheathed	This standard covers flat hexagon nuts with fine pitch thread for nipples and screw heads of metal-sheathed electrical tubular heating elements.
206.	Communique on TS 11918 Standard For Fasteners - Hexagon Nuts With Knuckle Thread; For Motive Power Units Turnbuckles and Drawbars published in The Official Gazette No. 28845 of 8 December 2013 (Communique Number: MSG-MS-/2013/41)	TS 11918	Fasteners - Hexagon Nuts With Knuckle Thread; For Motive Power Units Turnbuckles and Drawbars	This standard covers hexagon nuts with 7 mm pitch round screw metric knuckle thread, in grade B, strength class 14H used to motive power units turnbuckles and drawbars.  This standard is covers the definition, classification and properties, sampling, inspection and tests and placing on the market of hexagon nuts with knuckle thread.
207.	Communique on TS 11919 Standard For Fasteners - Hexagon Nuts - Castle Nut With Knuckle Thread For Motive Power Units Turnbuckles and Drawbars published in The Official Gazette No. 28845 of 8 December 2013 (Communique Number: MSG-MS-/2013/42)	TS 11919	Fasteners - Hexagon Nuts - Castle Nut With Knuckle Thread For Motive Power Units Turnbuckles and Drawbars	This standard covers hexagon castle nuts with 7 mm pitch round screw metric knuckle thread, in grade B, strength class 14H used to motive power units turnbuckles and drawbars.  This standard covers the definition, classification and properties, sampling,

				inspection, tests and the way of placed on the market of castle nuts.
208.	Communique on Mandatory Standard published in The Official Gazette No. 22864 of 31 December 1996 (Communique Number: 96/108-109)	TS 12091	Steel Hose Clamps - Worm Drive	This standard specifies steel hose clamps with worm drive used in hose connection systems.
209.	Communique on Mandatory Standard published in The Official Gazette No. 26904 of 12 June 2008 (Communique Number: ÖSG-2008/7)	TS 12091/T2		
210.	Communique on TS 12091 Standard For Steel Hose Clamps - Worm Drive published in The Official Gazette No. 28721 of 28 July 2013 (Communique Number: MSG-MS-2013/19)	TS 12091/T3		
211.	Communique on Mandatory Standard published in The Official Gazette No. 23453 of 4 September 1998 (Communique Number: 98/84-85)	TS 12429	Hexagon set screws with small hexagon and full dog point	This standard specifies dimensions and technical delivery conditions for coarse and fine pitch thread M6 to M56 hexagon set screws with small hexagon and full dog point, assigned to product grade A. These screws are only to be used as forcing screws.
		TS 12430	Hexagon fit bolts	This standard specifies dimensions and technical delivery conditions for M8 to M52 hexagon fit bolts, assigned to product grade A (for size M10 or Less) or product grade B (for size M12 or greater).  Only the dimensions and tolerances of hexagon fit bolts with a diameter larger than M39 are subject to this standard, and other

				properties must be determined by an agreement.
		TS 12431	Hexagon set screws with small hexagon half dog point and flat cone point	This standard specifies dimensions and the technical delivery conditions for coarse and fine pitch thread M6 to M36 hexagon set screws with small hexagon, half dog point and flat cone point, assigned to product grade A. These screws are mly to be used as forcing screws.
		TS 12433	Reduced shank bolts and screws with coarse thread	This standard specifies requirements for M2.5 to M30 bolts and screw (bolts, for short) with various head styles and a diameter of the unthreaded portion of the shank smaller than the minor diameter. It does not cover the characteristics of shank bolts threaded on both sides.
		TS EN 24015	Hexagon head bolts; product grade B; reduced shank (shank diameter=pitch diameter)	This standard gives specifications for hexagon head bolts with metric dimensions and thread diameters from 3 up to and including 20mm, with reduced shank (shank diameter pitch diameter), of product grade B.
		TS EN 28676	Hexagon Head Screws With Metric Fine Pitch Thread; Product Grades A and B	This standard gives specifications for hexagon head bolts with thread from M8 up to M64, of product grade A for threads M8 to M24 and nominal lengths up to including 10 d or 150 mm whichever is shorter and product grade B for thrends over M24 or nominal lengths over 10d or 150 mm whichever is shorter.

		TS EN 28765	Hexagon head bolts with metric fine pitch thread; product grades A and B	This standard gives specifications for hexagon head bolts with threads from M8 up to M64, of product grade A of threads M8 to M24 and nominal length up to including 10d or 150 mm whichever is shorter and product Grade B for threads over M24 or nominal lengths over 10d or 150 mm, whichever is shorter
212.	Communique on TS 12432 Standard For Hexagon fit bolts for steel structures supplied with or without hexagon nuts published in The Official Gazette No. 31145 of 4 June 2020 (Communique Number: MSG-MS-2020/28)	TS 12432	Hexagon fit bolts for steel structures supplied with or without hexagon nuts	This standard, covers the dimensions and technical delivery conditions for M12 to M30 hexagon head bolts of product grade C used for steel structures. This standard also covers nuts and washers to be used with these bolts. Hexagon head bolts conforming to this standard are also suitable for use in aluminum constructions and composite constructions.
213.	Communique on TS 12435 Standard For Hexagon fit bolts for steel structures supplied with or without hexagon nuts published in The Official Gazette No. 30651 of 10 January 2019 (Communique Number: MSG-MS-2018/9)	TS 12435	Hexagon head bolts with hexagon nut for steel structures	This standard specifies requirements for M12 to M30 hexagon head bolts for supply with hexagon nut, assigned to product grade C, for use in structural steel bolting. These bolts shall always be used together with A type washers as specified in DIN 7989. In addition, the hexagon head bolts conforming to this standard are also suitable for use in aluminum constructions and composite constructions.
214.	Communique on Mandatory Standard published in The Official Gazette No. 24810	TS 12829	Textiles - Touch and close fasteners	This standard covers the definition, classification and properties of sampling,

	of 9 July 2002 (Communique Number: ÖSG-2002/39)		- General purpose - Hooked - Polyamid	inspection, test methods and the way of placed on the market for hooked touch and closed fasteners made of polyamid for general use.
215.	Communique on Mandatory Standard published in The Official Gazette No. 25162 of 8 July 2003 (Communique Number: ÖSG-2003/61)	TS 12829/T1		This standard does not cover hooked touch and closed fasteners used in vital areas (parachute, life jacket, etc.) and clamping bands used as fasteners (for fastening materials such as pipes, cables) in the open air, underground and in water.
216.	Communique of Amendment on Mandatory Standard published in the Official Gazette No. 25399 of 11 March 2004 (Communique Number: ÖSG-2004/8)	TS 12829/T2		
217.	Communique on Mandatory Standard published in The Official Gazette No. 24810 of 9 July 2002 (Communique Number: ÖSG-2002/40)	TS 12848		This standard covers the definition, classification and properties of sampling, inspection, test methods and the way of placed on the market for mushroom touch and closed fasteners with a mushroom head made of polypropylene and knot part made of polyamid for general use.
218.	Communique on Mandatory Standard published in The Official Gazette No. 25162 of 8 July 2003 (Communique Number: ÖSG-2003/62)	TS 12848/T1	Textiles - Touch and close fasteners - General purpose - Mushroom	This standard does not cover hooked touch and closed fasteners used in vital areas (parachute, life jacket, etc.) and clamping bands used as fasteners (for fastening materials such as pipes, cables) in the open air, underground and in water.
219.	Communique of Amendment on Mandatory Standard published in the Official Gazette No. 25399 of 11 March 2004 (Communique Number: ÖSG-2004/7)	TS 12848/T2		
220.	Communique on Mandatory Standard published in The Official Gazette No. 25242 of 27 September 2013 (Communique Number: ÖSG-2003/85)	TS 13043	Cotton Yarn- Carded-Grey- Single-Open-End	This standard covers the definition, classification and properties sampling, inspection and tests and the way of placing on the market of carded raw, single ply, woven open-end cotton yarns.

<p>221.</p>	<p>Communique on TS EN 3-10 Standard For Portable fire extinguishers - Part 10: Provisions for evaluating the conformity of a portable fire extinguisher to EN 3 – 7 published in The Official Gazette No. 28451 of 24 October 2012 (Communique Number: MSG-MS-2012/28)</p>	<p>TS EN 3-10</p>	<p>Portable fire extinguishers - Part 10: Provisions for evaluating the conformity of a portable fire extinguisher to EN 3 - 7</p>	<p>This document specifies the minimum requirements for attesting the conformity of portable fire extinguishers to EN 3-7, as well as the requirements for the quality and production control of the fire extinguishers. It specifies the documentation to be provided regarding:</p> <ul style="list-style-type: none"> <li>- Identification of the applicant</li> <li>- Identification of the manufacturer, if not the applicant</li> <li>- Identification of subcontractor(s), if applicable</li> <li>- Identification of the extinguisher</li> <li>- Documents provided with the extinguisher</li> <li>- CE marking</li> <li>- Quality Management System</li> <li>- Extinguishing media toxicological information It specifies methods for: <ul style="list-style-type: none"> <li>- type testing.</li> <li>- factory assessment</li> <li>- controls during production.</li> </ul> </li> </ul> <p><b>NOTE 1</b> - A test report and a satisfactory audit supporting documentation may form the basis for a applicant to request a certification of his product from an EA accredited certification body.</p> <p>Additional requirements may be made by national regulations and/or quality marks.</p>
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				<b>NOTE 2</b> - Where appropriate, component family testing may be applied.
222.	Communique on Mandatory Standard published in The Official Gazette No. 24140 of 14 August 2000 (Communique Number: ÖSG-2000/96-97)	TS EN 230	Specification for Monobloc Oil Burners - Safety Control and Regulation Devices and Safety Times	This standard determines the requirements operating conditions and test methods for safety control and regulation devices for automatic and semi automatic atomizing burners of the monobloc type for burning fuel oils.
223.	Communique on Mandatory Standard published in The Official Gazette No. 24428 of 10 June 2001 (Communique Number: 2001/48-49)	TS EN 303-2	Heating boilers- Part 2: Heating boilers with forced draught burners- Special requirements for boilers with atomizing oil burners	This standard is applicable to heating boilers in accordance with EN 303-1 up to a nominal heat output of 1000 kW and EN 303-4 up to nominal heat output of 70 kW with atomizing oil burners in accordance with EN 267 which are designed for operating with liquid fuels.
224.	Communique on TS EN 303-2 Standard For Heating boilers- Part 2: Heating boilers with forced draught burners- Special requirements for boilers with atomizing oil burners published in The Official Gazette No. 30280 of 24 December 2017 (Communique Number: MSG-MS-2017/10)	TS EN 303-2/Amendment A1		
225.	Communique on TS EN 589:2008+A1:2012 Standard For Automotive fuels - LPG - Requirements and test methods published in The Official Gazette No. 28424 of 27 September 2012 (Communique Number: MSG-MS-2012/34)	TS EN 589:2008+A1:2012 (EN)	Automotive fuels - LPG - Requirements and test methods	This standard specifies requirements and test methods for marketed and delivered automotive LPG (Liquefied Petroleum Gas). It is applicable to automotive LPG for use in LPG engine vehicles designed to run on automotive LPG.
226.	Communique on TS EN Standard For Fire protection - Fire extinguishing media- Specifications for powders (other than class d powders) published in The Official Gazette	TS EN 615	Fire protection - Fire extinguishing media-	This standard is applicable to fire extinguishing powders for fire classes A, B and C. It specifies, by means of defined test methods, minimum requirements for the

	No. 28445 of 18 October 2012 (Communique Number: MSG-MS-2012/26)		Specifications for powders (other than class d powders)	<p>chemical and physical properties and minimum extinguishing capabilities. Requirements are also specified for the information and data to be given by the supplier.</p> <p>This standard does not cover powders used for fire class D.</p>
227.	Communique on TS EN 853 Standard For Rubber hoses and hose assemblies – Wire braid reinforced hydraulic type – Specification published in The Official Gazette No. 30663 of 22 January 2019 (Communique Number: MSG-MS-2018/5)	TS EN 853	Rubber hoses and hose assemblies – Wire braid reinforced hydraulic type – Specification	<p>This standard specifies requirements for four types of wire braid reinforced hoses and hose assemblies of nominal bore from 5 to 51. They are suitable for use with:</p> <ul style="list-style-type: none"> <li>– hydraulic fluids in accordance with ISO 6743-4 with the exception of HFD R, HFD S and HFD T at temperatures ranging from -40°C to +100°C;</li> <li>– water based fluids at temperatures ranging from -40°C to +70 °C;</li> <li>– water at temperatures ranging from 0°C to +70°C.</li> </ul> <p>This standard does not include requirements for end fittings. It is limited to the performance of hoses and hose assemblies.</p> <p><b>NOTE 1</b> - The hoses are not suitable for use with castor oil based and ester based fluids.</p> <p><b>NOTE 2</b> - Hoses and hose assemblies are not be operated outside the limits of this standard.</p>

				<b>NOTE 3</b> - Requirements for hydraulic hoses for underground mining are standardized in separate standards.
228.	Communique on TS EN 854 Standard For Rubber hoses and hose assemblies - Textile reinforced hydraulic type - Specification published in The Official Gazette No. 30663 of 22 January 2019 (Communique Number: MSG-MS-2018/16)	TS EN 854	Rubber hoses and hose assemblies - Textile reinforced hydraulic type - Specification	<p>This standard specifies requirements for three types of textile reinforced rubber hoses and hose assemblies of nominal bore from 5 to 100. The types are defined in Clause 3. They are suitable for use with:</p> <ul style="list-style-type: none"> <li>- hydraulic fluids in accordance with ISO 6743-4 with the exception of HRD R, HFD S and HFD at temperatures ranging from -40°C to 100°C;</li> <li>- water-based fluids at temperatures ranging from -40°C to +70°C;</li> <li>- water at temperature ranging from 0°C to +70°C.</li> </ul> <p>The standard does not cover requirements for end fittings. It is limited to the performance of hoses and hose assemblies.</p> <p><b>NOTE 1</b> - The hoses are not suitable for use with castor oil based and ester based fluids.</p> <p><b>NOTE 2</b> - Hoses and hose assemblies are not be operated outside the limits of this standard.</p> <p><b>NOTE 3</b> - Requirements for hydraulic hoses for underground mining are standardized in separate standards.</p>
229.	Communique on Flanges and Their Connections published in The Official	TS EN 1092-2/T1	Flanges and their joints - Circular	This standard specifies requirements for circular flanges made from ductile, grey and

	Gazette No. 28630 of 27 April 2013 (Communique Number: ÖSG-2011/5)		flanges for pipes, valves, fittings and accessories, PN designated - Part 2: Cast iron flanges-	malleable cast iron for DN 10 to DN 4000 and PN 2,5 to PN 63.  It also specifies the types of flanges and their facings, dimensions and tolerances, bolt sizes, surface finish of jointing faces, marking, testing, quality assurance and materials together with associated pressure/temperature (p/T) ratings.
230.	Communique on Mandatory Standard published in The Official Gazette No. 27863 of 3 March 2011 (Communique Number: ÖSG-2011/5)	TS EN ISO 1403	Rubber hoses, textile reinforced for general-Purpose water applications-Specification	This standard specifies the requirements for three types of general-purpose textile-reinforced rubber water hose with an operating temperature range of 25°C to +70°C and a maximum working pressure of up to 25 bar.  These hoses are not intended to be used for conveyance of potable (drinking) water, for washing-machine inlets, as firefighting hoses, for special agricultural machines or as collapsible water hoses.  These hoses may be used with additives which lower the freezing point of water.
231.	Communique on TS EN ISO 1482 Standard For Slotted countersunk (flat) head tapping screws published in The Official Gazette No. 28820 of 13 November 2013 (Communique Number: MSG-MS-2013/32)	TS EN ISO 1482	Slotted countersunk (flat) head tapping screws	This standard specifies the characteristics of slotted countersunk (flat) head tapping screws with thread sizes from ST 2.2 to ST 9.5 inclusive.
232.	Communique on TS EN ISO 1483 Standard For Slotted raised countersunk (oval) head tapping screws published in The Official	TS EN ISO 1483	Slotted raised countersunk (oval)	This standard specifies the characteristics of slotted raised countersunk (oval) head

	Gazette No. 28831 of 24 November 2013 (Communique Number: MSG-MS-2013/33)		head tapping screws	tapping screws with thread sizes from ST 2.2 to ST 9.5 inclusive.
233.	Communique on TS EN 1552-2 Standard For Plastics piping systems for the supply of gaseous fuels - Polyethylene (PE)Part 2: Pipes published in The Official Gazette No. 28835 of 28 November 2013 (Communique Number: MSG-MS-2013/37)	TS EN 1555-2	Plastics piping systems for the supply of gaseous fuels - Polyethylene (PE)Part 2: Pipes	This standard covers the specifications of pipes made of polyethylene for plastics piping systems used for the transportation of gaseous fuels.  It also specifies the test parameters for the test methods referred to in this standard.
234.	Communique on TS 1555-3+A1 Standard For Plastics piping systems for the supply of gaseous fuels - Polyethylene (PE) - Part 3: Fittings published in The Official Gazette No. 28831 of 24 November 2013 (Communique Number: MSG-MS-2013/30)	TS EN 1555-3+A1	Plastics piping systems for the supply of gaseous fuels - Polyethylene (PE) - Part 3: Fittings	This standard covers the specifications for melted fittings made of polyethylene (PE) and mechanical fittings for piping systems used for the transportation of gaseous fuels.  It also specifies the test parameters for the test methods referred to in this standard.
235.	Communique on Mandatory Standard published in The Official Gazette No. 27616 of 19 June 2010 (Communique Number: ÖSG-2010/15)	TS EN 1568-1	Fire extinguishing media - Foam concentrates - Part 1: Specification for medium expansion foam concentrates for surface application to water - immiscible liquids	This document specifies requirements for chemical and physical properties, and minimum performance requirements of medium expansion foams suitable for surface application to water-immiscible liquids. Requirements are also given for marking.
		TS EN 1568-2	Fire extinguishing media - Foam concentrates - Part 2: Specification for high expansion	This document specifies requirements for chemical and physical properties, and minimum performance requirements of high expansion foams suitable for surface application to water-immiscible liquids.

			foam concentrates for surface application to water - immiscible liquids	Requirements are also given for marking. <b>NOTE</b> - Some concentrates conforming to this part of EN 1568 can also conform to other parts and therefore can also be suitable for application as low and/or medium expansion foams.
		TS EN 1568-3	Fire extinguishing media - Foam concentrates - Part 3: Specification for low expansion foam concentrates for surface application to water-immiscible liquids	This document specifies requirements for chemical and physical properties, and minimum performance requirements of low expansion foams suitable for surface application to water-immiscible liquids. Requirements are also given for marking. <b>NOTE</b> - Some concentrates conforming to this part of EN 1568 can also conform to other parts and therefore can also be suitable for application as medium and/or high expansion foams, and for application at low expansion to water-miscible liquids.
		TS EN 1568-4	Fire extinguishing media - Foam concentrates - Part 3: Specification for low expansion foam concentrates for surface application to water-immiscible liquids	This document specifies requirements for chemical and physical properties, and minimum performance requirements of low expansion foams suitable for surface application to water-miscible liquids. Requirements are also given for marking. <b>IMPORTANT</b> - In this part of the document, the fire performance is tested using acetone and isopropanol as the fuel, which also forms the basis for the performance classification.

				<p>However, there are a large number of water-miscible liquids, which have more or less different properties to acetone and isopropanol. It has been shown by tests using other fuels that the performance of various foams can differ considerably. Examples of such fuel is Methyl Ethyl Ketone (MEK). It is therefore essential that the user checks for any unfavourable or unacceptable loss of efficiency when the foam is used against fires in any other water-miscible fuels than acetone and isopropanol resepectively. The fire test conditions and procedure given in J.2 can be used in order to achieve results comparative with acetone and isopropanol resepectively and related requirements.</p> <p>It is also essential for the user to note, that other fuel depths and methods of application than those specified in I.2, can cause considerable loss of efficiency and these matters should be carefully considered by the user when assessing the suitability for particular applications.</p> <p><b>NOTE</b> - Some concentrates conforming to this part of EN 1568 can also conforms to other parts and therefore can also be suitable for application as medium and/or high expansion foams.</p>
236.	Communique on TS EN 1765 Standard For Rubber hose assemblies for oil suction and	TS EN 1765	Rubber hose assemblies for oil	This standard specifies the characteristics of four types of oil suction and discharge hose

	discharge services - Specification for the assemblies published in The Official Gazette No. 30734 of 3 April 2019 (Communique Number: MSG-MS-2019/4)		suction and discharge services - Specification for the assemblies	<p>assemblies used for the conveyance of petroleum, including crude oils and other liquid petroleum products containing a maximum aromatics content of 50 % (v/v). It is not suitable for liquefied petroleum gas and natural gas.</p> <p>Hose assemblies to this document can be used in the temperature range -20°C to 82°C. The hoses specified are in the size range of nominal bore 50 to 500 and may be smooth bore, rough bore or armoured rough bore. Hoses for use with petroleum products having an aromatic content greater than 50 % (v/v) are outside the scope of this document but the requirements may be used as a basis for such hoses on request to the manufacture</p>
237.	Communique on Mandatory Standard published in The Official Gazette No. 23760 of 19 July 1999 (Communique Number: ÖSG-99/70-71)	TS prEN 1947	Semi - Rigid reel hoses for fire fighting pums and vehicles	This standard specifies the requirements and tests for remi-rigid reel hose for fire fighting use on fire service pumps-and vehicles.
238.	Communique on TS EN ISO 2009 Standard For Slotted countersunk flat head screws - Product grade A published in The Official Gazette No. 28833 of 26 November 2013 (Communique Number: MSG-MS-2013/34)	TS EN ISO 2009	Slotted countersunk flat head screws - Product grade A	<p>This standard specifies the characteristics of slotted countersunk flat head screws of product grade A and with threads from M1.6 to M10 inclusive.</p> <p>If, in special cases, specifications other than those listed in this standard are required, they can be selected from existing International Standards, for example ISO 261, ISO 888, ISO 898-1, ISO 965-2 and ISO 3506-1.</p>



239.	Communique on TS EN ISO 2010 Standard For Slotted raised countersunk head screws - Product grade A published in The Official Gazette No. 28820 of 13 November 2013 (Communique Number: MSG-MS-2013/29)	TS EN ISO 2010	Slotted raised countersunk head screws - Product grade A	<p>This standard specifies the characteristics of countersunk slotted raised head screws of product grade A and with threads from M1.6 to M10 inclusive.</p> <p>If, in special cases, specifications other than those listed in this standard are required, they can be selected from existing International Standards, for example ISO 261, ISO 888, ISO 898-1, ISO 965-2 and ISO 3506-1.</p>
240.	Communique on TS EN ISO 2398 Standard For Rubber hoses, textile-reinforced, for compressed air - Specification published in The Official Gazette No. 31310 of 20 November 2020 (Communique Number: MSG-MS-2020/9)	TS EN ISO 2398	Rubber hoses, textile-reinforced, for compressed air - Specification	<p>This document specifies the requirements for three types, three classes and two categories of textilereinforced rubber hose for compressed air, up to a maximum working pressure of 25 bar with an operating temperature range of -40 °C to +70 °C, depending on the type and category.</p>
241.	Communique on TS EN ISO 2560 Standard For Welding consumables - Covered electrodes for manual metal arc welding of non-alloy and fine grain steels - Classification published in The Official Gazette No. 28648 of 15 May 2013 (Communique Number: MSG-MS-2013/11)	TS EN ISO 2560	Welding consumables - Covered electrodes for manual metal arc welding of non-alloy and fine grain steels - Classification	<p>ISO 2560:2009 specifies requirements for classification of covered electrodes and deposited metal in the as-welded condition and in the post-weld heat-treated condition for manual metal arc welding of non-alloy and fine grain steels with a minimum yield strength of up to 500 MPa or a minimum tensile strength of up to 570 MPa. ISO 2560:2009 is a combined specification providing for classification utilizing a system based upon the yield strength and the average impact energy of 47 J of all-weld metal, or utilizing a system based upon the tensile strength and the average impact energy of 27</p>

				<p>J of all-weld metal. Paragraphs and tables which carry the suffix letter “A” are applicable only to covered electrodes classified to the system based upon the yield strength and the average impact energy of 47 J of all-weld metal in ISO 2560:2009. Paragraphs and tables which carry the suffix letter “B” are applicable only to covered electrodes classified to the system based upon the tensile strength and the average impact energy of 27 J of all-weld metal in ISO 2560:2009. Paragraphs and tables which do not have either the suffix letter “A” or the suffix letter “B” are applicable to all covered electrodes classified in ISO 2560:2009.</p>
242.	<p>Communique on TS EN ISO 2702 Standard For Heat-treated steel tapping screws - Mechanical properties published in The Official Gazette No. 28815 of 8 November 2013 (Communique Number: MSG-MS-2013/27)</p>	TS EN ISO 2702	<p>Heat-treated steel tapping screws - Mechanical properties</p>	<p>The primary objective of this document is to ensure that tapping screws will form mating threads in materials into which they are normally driven without deforming their own thread and without breaking during assembly or service.</p> <p>This document specifies the characteristics of heat-treated steel tapping screws, with tapping screw thread from ST2.2 to ST9.5 inclusive in accordance with ISO 1478, together with the corresponding test methods.</p>
243.	<p>Communique on TS EN ISO 2858 Standard For End-suction centrifugal pumps (rating 16 bar) - Designation, nominal duty point and dimensions published in The Official Gazette</p>	TS EN ISO 2858	<p>End-suction centrifugal pumps (rating 16 bar) - Designation,</p>	<p>This sandard specifies the principal dimensions and nominal duty point of end-suction centrifugal Pumps having a maximum operating rating of 16 bar.</p>

	No. 28508 of 25 December 2012 (Communique Number: MSG-MS-2012/41)		nominal duty point and dimensions	
244.	Communique on TS EN ISO 3266 Standard For Forged steel eyebolts grade 4 for general lifting purposes published in The Official Gazette No. 28712 of 19 July 2013 (Communique Number: MSG-MS-2013/16)	TS EN ISO 3266	Forged steel eyebolts grade 4 for general lifting purposes	<p>This standard specifies the general characteristics, performance and critical dimensions necessary for interchangeability and compatibility with other components, of forged steel eyebolts grade 4 for general lifting purposes. These eyebolts can be used for axial and inclined loading.</p> <p>This standard specifies the dimensions of the eyes of eyebolts permitting direct connection with shackles of the same working load limit as those defined in ISO 2415. These dimensions also allow designs with a larger eye which can permit direct connection with sling hooks of similar working load limit.</p> <p>This standard covers all significant hazards, hazardous situations and events relevant to eyebolts grade 4 as defined in Clause 4.</p> <p>This standard is applicable to eyebolts grade 4 for use in the temperature range of -20°C to 200°C.</p> <p>This standard is not applicable to eyebolts which are not forged in one piece.</p> <p>This standard is not applicable to forged steel eyebolts grade 4 manufactured before the date of its publication as a standard.</p>

245.	<p>Communique on TS EN ISO 3821 Standard For Gas welding equipment - Rubber hoses for welding, cutting and allied processes published in The Official Gazette No. 28532 of 18 January 2013 (Communique Number: MSG-MS-2012/43)</p>	TS EN ISO 3821	<p>Gas welding equipment - Rubber hoses for welding, cutting and allied processes</p>	<p>This standard specifies requirements for rubber hoses (including twin hoses) for welding, cutting and allied processes.</p> <p>This standard specifies requirements for rubber hoses for normal duty of 2 MPa (20 bar) and light duty [limited to hoses for maximum working pressure of 1 MPa (10 bar) and with bore up to and including 6.3 mm].</p> <p>This standard applies to hoses operated at temperatures -20°C to +60°C and used in:</p> <ul style="list-style-type: none"> <li>- gas welding and cutting;</li> <li>- arc welding under the protection of an inert or active gas;</li> <li>- processes allied to welding and cutting, in particular, heating, brazing, and metallization.</li> </ul> <p>This standard applies neither to thermoplastics hoses nor to hoses used for high pressure [<math>&gt;0,15</math> MPa (<math>&gt;1,5</math> bar)] acetylene.</p>
246.	<p>Communique on TS EN ISO 4014 Standard For Hexagon head bolts – Product grades A and B published in The Official Gazette No. 28613 of 9 April 2013 (Communique Number: MSG-MS-2013/7)</p>	TS EN ISO 4014	<p>Hexagon head bolts – Product grades A and B</p>	<p>This document specifies the characteristics of hexagon head bolts with threads from M1.6 up to and including M64, of product grade A for threads M1.6 to M24 and nominal lengths up to and including 10 d or 150 mm, whichever is shorter and product grade B for</p>

				<p>threads over M24 or nominal lengths over 10 d or 150 mm, whichever is shorter.</p> <p>If in special cases, specifications other than those listed in this standard are required, they can be selected from existing International Standards such as ISO 724, ISO 888, ISO 898-1, ISO 965-1, ISO 3506-1, ISO 4753 and ISO 4759-1.</p>
247.	<p>Communique on TS EN ISO 4016 Standard For Hexagon head bolts - Product grade C published in The Official Gazette No. 28719 of 26 July 2013 (Communique Number: MSG-MS-2013/17)</p>	TS EN ISO 4016	Hexagon head bolts - Product grade C	<p>This standard specifies the characteristics of hexagon head bolts with threads from M5 up to and including M64, of product grade C.</p> <p>If, in special cases, specifications other than those listed in this standard are required, they can be selected from existing International Standards, for example ISO 724, ISO 888, ISO 898-1, ISO 965-1 and ISO 4759-1.</p>
248.	<p>Communique on TS EN ISO 4017 Standard For Fasteners - Hexagon head screws - Product grades A and B published in The Official Gazette No. 30781 of 22 May 2019 (Communique Number: MSG-MS-2019/16)</p>	TS EN ISO 4017	Fasteners - Hexagon head screws - Product grades A and B	<p>This standard specifies the characteristics of hexagon head screws with threads from M1.6 up to and including M64, of product grade A for threads M1.6 to M24 and nominal lengths up to and including 10 d or 150 mm, whichever is the shorter, and product grade B for threads over M24 or nominal lengths over 10 d or 150 mm, whichever is the shorter.</p> <p><b>NOTE</b> - This type of product is the same as that covered by ISO 4014 with the exception of threading up to head and nominal lengths up to and including 200 mm as preferred lengths.</p>

				<p>If, in special cases, specifications other than those listed in this standard are required, they can be selected from existing International Standards, for example ISO 724, ISO 888, ISO 898-1, ISO 965-1, ISO 3506-1, ISO 4753 and ISO 4759-1.</p>
249.	<p>Communique on TS EN ISO 4018 Standard For Hexagon head screws - Product grade C published in The Official Gazette No. 28675 of 12 June 2013 (Communique Number: MSG-MS-2013/12)</p>	TS EN ISO 4018	Hexagon head screws - Product grade C	<p>This document specifies the characteristics of hexagon head screws with threads from M5 up to and including M64, of product grade C.</p> <p><b>NOTE</b> - This type of product is the same as in ISO 4016, except that it is threaded up to the head.</p> <p>If, in special cases specifications other than those listed in this standard are required, they can be selected from existing International Standards such as ISO 724, ISO 888, ISO 898-1, ISO 965-1 and ISO 4759-1.</p>
250.	<p>Communique on TS EN ISO 4032 Standard For Hexagon nuts, style 1 - Product grades A and B published in The Official Gazette No. 28845 of 8 December 2013 (Communique Number: MSG-MS-2013/40)</p>	TS EN ISO 4032	Hexagon nuts, style 1 - Product grades A and B	<p>This document specifies the characteristics of hexagon regular nuts (style 1) with threads from M1.6 up to and including M64, with product grade A for threads D smaller than or equal to M16 and product grade B for threads D larger than M16.</p> <p>If, in special cases specifications other than those listed in this standard are required, they can be selected from existing International Standards such as ISO 724, ISO 898-2, ISO 965-1, ISO 3506-2 and ISO 4759-1.</p>

				<b>NOTE</b> - See ISO 4033 for hexagonal high nuts (style 2).
251.	Communique on TS EN ISO 4033 Standard For Hexagon high nuts (style 2) - Product grades A and B published in The Official Gazette No. 29457 of 26 August 2015 (Communique Number: MSG-MS-2015/8)	TS EN ISO 4033	Hexagon high nuts (style 2) - Product grades A and B	<p>This document specifies the characteristics of hexagon high nuts (style 2) with threads from M5 up to and including M36, with product grade A for threads D smaller than or equal to M16 and product grade B for threads D larger than M16.</p> <p>If, in special cases specifications other than those listed in this standard are required, they can be selected from existing International Standards such as ISO 724, ISO 898-2, ISO 965-1 and ISO 4759-1.</p> <p><b>NOTE</b> - See ISO 4032 for normal hexagonal nuts (style 1).</p>
252.	Communique on TS EN ISO 4034 Standard For Hexagon regular nuts (style 1) - Product grade C published in The Official Gazette No. 29837 of 24 September 2016 (Communique Number: MSG-MS-2016/9)	TS EN ISO 4034	Hexagon regular nuts (style 1) - Product grade C	<p>This standard specifies the characteristics of hexagon regular nuts (style 1) with threads from M5 up to and including M64 and product grade C.</p> <p>If, in special cases, specifications other than those listed in this standard are required, they can be selected from existing International Standards, for example ISO 724, ISO 898-2, ISO 965-1 and ISO 4759-1.</p>
253.	Communique on TS EN ISO 4035 Standard For Hexagon thin nuts chamfered (style 0) - Product grades A and B published in The	TS EN ISO 4035	Hexagon thin nuts chamfered (style 0) - Product grades A and B	<p>This standard specifies the characteristics of chamfered hexagon thin nuts (style 0), with threads from M1.6 up to and including M64,</p>

	Official Gazette No. 29343 of 2 May 2015 (Communique Number: MSG-MS-2015/3)			<p>with product grade A for threads <math>D \leq M16</math> and product grade B for threads <math>D &gt; M16</math>.</p> <p>If, in special cases, specifications other than those listed in this standard are required, they can be selected from existing International Standards, for example ISO 724, ISO 898-2, ISO 965-1, ISO 3506-2 and ISO 4759-1.</p>
254.	Communique on Mandatory Standard published in The Official Gazette No. 25240 of 25 September 2003 (Communique Number: ÖSG-2003/83)	TS EN ISO 4957	Tool steels	<p>This standard covers the following grades of wrought tool steels:</p> <ul style="list-style-type: none"> <li>a) non-alloy cold-work tool steels;</li> <li>b) alloy cold-work tool steels;</li> <li>c) alloy hot-work tool steels;</li> <li>d) high-speed tool steels.</li> </ul> <p>If not stated otherwise, this International Standard applies to all types of hot-rolled, forged, cold-drawn or cold-rolled products which are supplied in one of the surface and heat-treatment conditions given in 4.1.2 and Table 1.</p> <p>Products according to this standard may be produced by powder metallurgy.</p> <p><b>NOTE 1</b> - The Tables 2, 4, 6 and 8 cover only those steels which have gained certain international importance, which does not mean however, that they are available in all industrial countries. In addition, a number of other steels for tools are specified in regional, national or company standards.</p>



				<p><b>NOTE 2</b> - Where the heat resistance of the tools is of particular importance, as for example in the case of tools for hot forming glass, the material selection should be based on ISO 4955 or ISO 9722.</p> <p>1.2 In addition to this standard, the general technical delivery requirements of ISO 404 are applicable.</p>
255.	<p>Communique on Mandatory Standard published in The Official Gazette No. 27287 of 13 July 2009 (Communique Number: ÖSG-2009/12)</p>	TS EN ISO 5199	<p>Technical specifications for centrifugal pumps - Class II</p>	<p>This standard specifies the requirements for Class II centrifugal pumps of single-stage, multistage, horizontal or vertical construction, with any drive and any installation for general application. Pumps used in the chemical process industries (e.g. those conforming to ISO 2858) are typical of those covered by this standard.</p> <p>This standard includes design features concerned with installation, maintenance and safety for these pumps including baseplate, couplings and auxiliary piping, but it does not specify any requirements for the driver other than those related to its rated power output.</p> <p>Where application of this standard has been called for and requires a specific design feature, alternative designs may be offered which meet the intent of this standard provided that the alternative is described in detail.</p>

				Pumps not complying with all the requirements of this standard may be offered for consideration provided that all deviations are stated.
256.	Communique on TS EN ISO 6134 Standard For Rubber hoses and hose assemblies for saturated steam - Specification published in The Official Gazette No. 31047 of 22 February 2020 (Communique Number: MSG-MS-2020/19)	TS EN ISO 6134	Rubber hoses and hose assemblies for saturated steam - Specification	<p>This document specifies requirements for two types of hoses and hose assemblies, low pressure with a maximum working pressure of 6 bar and high pressure with a maximum working pressure of 18 bar, made of rubber and hose fittings made of metal, designed to convey saturated steam and hot water condensate.</p> <p>Each type is divided into two classes having either an oil resistant or non-oil resistant cover.</p> <p><b>NOTE</b> - Information on the frequency of testing of hose assemblies in use and storage is given in Annex A and Annex B</p>
257.	Communique on TS EN ISO 7046-1 and TS EN ISO 7046 Standard For Countersunk flat head screws (common head style) with type H or type Z cross recess published in The Official Gazette No. 28642 of 9 May 2013 (Communique Number: MSG-MS-2013/9)	TS EN ISO 7046-1	Countersunk flat head screws (common head style) with type H or type Z cross recess - Product grade A - Part 1: Steel screws of property class 4.8	<p>This standard specifies the characteristics of countersunk flat head screws with threads from M1.6 to M10 inclusive, of product grade A and property class 4.8, and with type H or type Z cross recess.</p> <p>If, in special cases, specifications other than those listed in this part of ISO 7046 are required, they can be selected from existing International Standards, for example ISO 261, ISO 888, ISO 898-1 and ISO 965-2.</p>

		TS EN ISO 7046-2	Countersunk flat head screws (common head style) with type H or type Z cross recess - Product grade A - Part 2: Steel screws of property class 8.8, stainless steel screws and non-ferrous metal screws	This part of ISO 7046 specifies the characteristics of recessed countersunk flat head screws with threads M2 up to and including M10, of grade A and of property class 8.8 for steel, A2-70 for stainless steel and CU2 and CU3 for non-ferrous metals.  If, in special cases, specifications other than those listed in this part of ISO 7046 are required, they can be selected from existing International Standards, for example ISO 261, ISO 888, ISO 898-1, ISO 965-2, ISO 3506-1, ISO 4759-1 and ISO 8839.
258.	Communique on TS EN ISO 7050 Standard For Cross-recessed countersunk (flat) head tapping screws published in The Official Gazette No. 28817 of 10 November 2013 (Communique Number: MSG-MS-2013/28)	TS EN ISO 7050	Cross-recessed countersunk (flat) head tapping screws	This Standard specifies the characteristics of cross-recessed pan head tapping screws with thread sizes from ST 2.2 to ST 9.5 inclusive.
259.	Communique on TS EN ISO 7051 Standard For Cross-recessed raised countersunk (oval) head tapping screws published in The Official Gazette No. 28731 of 7 August 2013 (Communique Number: MSG-MS-2013/20)	TS EN ISO 7051	Cross-recessed raised countersunk (oval) head tapping screws	This document specifies the characteristics of cross recessed raised countersunk (oval) head tapping screws with thread sizes from ST 2.2 to ST 9.5 inclusive.
260.	Communique on TS EN ISO 8673 Standard For Hexagon regular nuts (style 1) with metric fine pitch thread - Product grades A and B published in The Official Gazette No. 29258 of 5 February 2015 (Communique Number: MSG-MS-2015/1)	TS EN ISO 8673	Hexagon regular nuts (style 1) with metric fine pitch thread - Product grades A and B	This standard specifies the geometry of hexagon nuts with nominal thread diameter from 8 mm up to and including 64 mm and the mechanical properties of hexagon regular nuts (style 1) with metric fine pitch thread in product grade A for nominal thread diameters $8 \text{ mm} \leq D \leq 16 \text{ mm}$ and in product grade B for nominal diameters $16 \text{ mm} < D \leq 39 \text{ mm}$ .

				<p>If, in special cases, specifications other than those listed in this standard are required, they can be selected from existing International Standards, for example ISO 724, ISO 898-2, ISO 965-1, ISO 3506-2 and ISO 4759-1.</p> <p><b>NOTE</b> - As there is an insufficient nut height due to the fine pitch thread, there is a higher probability of nut thread stripping. Hence, high nuts (style 2) according to ISO 8674 are preferably used.</p>
261.	<p>Communique on TS EN ISO 8674 Standard For Hexagon high nuts (style 2) with metric fine pitch thread - Product grades A and B published in The Official Gazette No. 29328 of 16 April 2015 (Communique Number: MSG-MS-2015/2)</p>	TS EN ISO 8674	<p>Hexagon high nuts (style 2) with metric fine pitch thread - Product grades A and B</p>	<p>This document specifies the characteristics of hexagon high nuts (style 2) with metric fine pitch thread, with nominal thread diameters D from 8 mm up to and including 36 mm, with product grade A for sizes D smaller than or equal to 16 mm and product grade B for sizes D larger than 16 mm.</p> <p>If, in special cases, specifications other than those listed in this standard are required, they can be selected from existing International Standards, for example ISO 724, ISO 898-2, ISO 965-1 and ISO 4759-1.</p>
262.	<p>Communique on TS EN ISO 8675 Standard For Hexagon thin nuts chamfered (style 0) with metric fine pitch thread - Product grades A and B published in The Official Gazette No. 31015 of 21 January 2020 (Communique Number: MSG-MS-2019/36)</p>	TS EN ISO 8675	<p>Hexagon thin nuts chamfered (style 0) with metric fine pitch thread - Product grades A and B</p>	<p>This standard specifies the characteristics of chamfered hexagon thin nuts (style 0), with metric fine pitch thread, with nominal thread diameters, D, from 8 mm up to and including 64 mm, with product grade A for sizes D ≤</p>

				<p>16 mm and product grade B for sizes D &gt; 16 mm.</p> <p>If, in special cases, specifications other than those listed in this standard are required, they can be selected from existing International Standards, for example ISO 724, ISO 898-2, ISO 965-1, ISO 3506-2 and ISO 4759-1.</p>
263.	<p>Communique on TS EN ISO 8752 Standard For Spring-type straight pins - Slotted, heavy duty published in The Official Gazette No. 28459 of 6 November 2012 (Communique Number: MSG-MS-2012/32)</p>	TS EN ISO 8752	Spring-type straight pins - Slotted, heavy duty	<p>This standard specifies the characteristics of slotted spring-type straight pins, made of steel or of austenitic or martensitic stainless steel, heavy duty with nominal diameter, d1, from 1 mm to 50 mm inclusive.</p>
264.	<p>Communique on TS EN 10056-1 Standard For Structural steel equal and unequal leg angles - Part 1: Dimensions published in The Official Gazette No. 30734 of 3 April 2019 (Communique Number: MSG-MS-2019/8)</p>	TS EN 10056-1	Structural steel equal and unequal leg angles - Part 1: Dimensions	<p>This standard specifies requirements for the nominal dimensions of hot-rolled equal and unequal leg angles. This standard does not apply to angles with square roots. These requirements do not apply to equal and unequal leg angles rolled from stainless steel.</p>
265.	<p>Communique on Mandatory Standard published in The Official Gazette No. 24848 of 16 August 2002 (Communique Number: ÖSG-2002/54)</p>	TS EN 10085	Nitriding steels - Technical delivery conditions	<p>This standard specifies the technical delivery requirements for</p> <ul style="list-style-type: none"> <li>- semi-finished products, e. g. blooms, billets, slabs (see NOTE 3);</li> <li>- bars (see NOTE 3)</li> <li>- rod</li> <li>- wide flats</li> <li>- hot- or cold-rolled strip and sheet/plate</li> <li>- forgings (see NOTE 3)</li> </ul> <p>manufactured from the nitriding steels listed in Table 3 and supplied in one of the heat-</p>

				<p>treatment conditions given for the different types of products in Table 1, line 2 to 4 and in one of the surface conditions given in Table 2.</p> <p>The steels are, in general, intended for the fabrication of quenched and tempered and generally machined and subsequently nitrided parts.</p> <p><b>NOTE 1</b> - Some grades from EN 10083-1 are also used for nitriding treatment.</p> <p><b>NOTE 2</b> - Related standards are given in Bibliography.</p> <p><b>NOTE 3</b> - Hammer-forged semi-finished products (blooms, billets, slabs etc.) and hammer-forged bars are in the following covered under semi-finished products or bars and not under the term “forgings”.</p> <p><b>1.2</b> In special cases, variations in these technical delivery requirements or additions to them may form the subject of an agreement at the time of enquiry and order (see annex B).</p> <p><b>1.3</b> In addition to the specifications of this standard, the general technical delivery requirements of EN 10021 are applicable.</p>
266.	Communique on Mandatory Standard published in The Official Gazette No. 25178	TS EN 10202	Cold reduced tinmill products - Electrolytic	This standard specifies requirements for tinmill products in the form of sheets or coils for subsequent cutting into sheets. Tinmill

	of 24 July 2003 (Communique Number: ÖSG-2003/69)		tinplate and electrolytic chromium/chromium oxide coated steel	<p>products consist of single and double reduced low carbon mild steel electrolytically coated with either tin (tinplate) or chromium/chromium oxide (ECCS).</p> <p>Single reduced tinmill products are specified in nominal thicknesses that are multiples of 0.005 mm from 0.17 mm up to and including 0.49 mm. Double reduced tinmill products are specified in nominal thicknesses that are multiples of 0.005 mm from 0.13 mm up to and including 0.29 mm.</p> <p>This standard applies to coils and sheets cut from coils in nominal minimum widths of 600 mm.</p> <p><b>NOTE</b> - Standard width coils for specific uses, e.g. tabstock, may be slit into narrow strip for supply in coil form.</p>
267.	Communique on Mandatory Standard published in The Official Gazette No. 25178 of 24 July 2003 (Communique Number: ÖSG-2003/67)	TS EN 10209	Cold rolled low carbon steel flat products for vitreous enamelling - technical delivery conditions	<p>This standard applies to cold rolled non-coated low carbon steel flat products in rolled widths equal to or over 600 mm and in thicknesses equal to or less than 3 mm, delivered in sheet, wide strip, slit wide strip or cut lengths obtained from slit wide strip or sheet.</p>

268.	Communique on Standard For Open die steel forgings for general engineering purposes- Part 1: General requirements and Part 3: Alloy special steels (TS EN 10250-1 and TS EN 10250-3) published in The Official Gazette No. 28433 of 6 October 2012 (Communique Number: MSG-MS-2012/23)	TS EN 10250-1	Open die steel forgings for general engineering purposes - Part 1: General requirements	<p>This standard specifies general technical delivery conditions for open die forgings, forged bars and pre-forged and finished on a continuous rolling mills products for general engineering purposes.</p> <p>General information on technical delivery conditions is given in EN 10021.</p>
		TS EN 10250-3	Open die steel forgings for general engineering purposes - Part 3: Alloy special steels	<p>This standard specifies the technical delivery requirements for open die forgings, forged bars and products pre-forged and finished in ring rolling mills, manufactured from alloy special steel and supplied in the quenched and tempered condition.</p> <p><b>NOTE</b> - The majority of steels listed in this Part of EN 10250 are identical to steels specified in EN 10083-1 and more extensive information on hardenability and technological properties is given in that standard.</p> <p>General information on technical delivery conditions is given in EN 10021.</p>
269.	Communique on TS EN 10254 Standard For Steel closed die forgings- General technical delivery conditions published in The Official Gazette No. 28433 of 6 October 2012 (Communique Number: MSG-MS-2012/24)	TS EN 10254	Steel closed die forgings - General technical delivery conditions	<p>This standard specifies the general delivery conditions for steel closed die forgings.</p> <p>These forgings are produced by blow or pressure of the heated product at a suitable temperature (hot or warm) in a die, which in the forming process shapes the material to the form of the die.</p>



				<p>Similar products such as warm extrusions and upset forgings, are also regarded as part of the process.</p> <p>This standard applies also to closed die forgings when their surface is partially treated subsequently by cold forming or coining, in order to improve the surface quality or to obtain more precise dimensional accuracy.</p> <p>This standard does not apply to open die forgings, process in which the tooling does not fully surround the components produced.</p>
270.	<p>Communique on Mandatory Standard published in The Official Gazette No. 27287 of 13 July 2009 (Communique Number: 2009/10)</p>	TS EN 10255	<p>Non-alloy steel tubes suitable for welding and threading - Technical delivery conditions</p>	<p>This document specifies the requirements for circular non-alloy steel tubes suitable for welding and threading and provides a number of options for the finish of tube ends and coatings. This document covers tubes of specified outside diameter 10.2 mm to 165.1 mm (thread size 1/8 to 6) in two series, medium and heavy, and three types of designated thicknesses.</p> <p><b>NOTE</b> - Tubes manufactured according to this document can be used for the conveyance of fluids as well as for other applications.</p>
271.	<p>Communique on Mandatory Standard published in The Official Gazette No. 27284 of 10 July 2009 (Communique Number: ÖSG-2009/5)</p>	TS EN 10305-1	<p>Steel tubes for precision applications - Technical delivery conditions - Part 1:</p>	<p>This Part of EN 10305 specifies the technical delivery conditions for seamless cold drawn steel tubes of circular cross section for precision applications.</p>

			Seamless cold drawn tubes	<p><b>NOTE</b> - This Part of EN 10305 can also cover other types of cross section.</p> <p>Tubes according to this Part of EN 10305 are characterized by having precisely defined tolerances on dimensions and a specified surface roughness. Typical fields of application are in the vehicle, furniture and general engineering industries.</p>
272.	Communique on Mandatory Standard published in The Official Gazette No. 27284 of 10 July 2009 (Communique Number: ÖSG-2009/8)	TS EN 10341	Cold rolled electrical non-alloy and alloy steel sheet and strip delivered in the semi-processed state	This standard specifies cold-rolled electrical non-oriented non-alloyed or alloyed steel sheet and strip delivered in nominal thicknesses of 0.50 mm and 0.65 mm in the semi-processed condition, that is without final heat treatment; in particular, it specifies general requirements, magnetic properties, geometric characteristics and tolerances and technological characteristics, as well as the inspection procedure.
273.	Communique on Mandatory Standard published in The Official Gazette No. 24493 of 14 August 2001 (Communique Number: ÖSG-2001/86-87)	TS 10562 EN 60305	Insulators for overhead lines with a nominal voltage above 1 kV-Ceramic or glass insulator units for a.c. systems- Characteristics of insulator units of the cap and pin type	This standard applies to string insulator units of the cap and pin type with insulating parts of ceramic material or glass intended for a.c. overhead lines with a nominal voltage greater than 1000 V.

274.	Communique on TS EN ISO 10642 Standard For Hexagon socket countersunk head screws published in The Official Gazette No. 28451 of 24 October 2012 (Communique Number: MSG-MS-2012/30)	TS EN ISO 10642	Hexagon socket countersunk head screws	<p>This standard specifies the characteristics of hexagon socket countersunk head screws with threads from M3 up to and including M20, with product grade A and property classes 8.8, 10.9 and 12.9.</p> <p><b>NOTE</b> - Particular attention is drawn to the note in Table 2 and to Table 3, concerning the limitation on ultimate tensile load.</p> <p>If, in special cases, specifications other than those listed in this standard are required, they should be selected from existing International Standards, e.g. ISO 261, ISO 888, ISO 898-1, ISO 965-2 and ISO 4759-1.</p>
275.	Communique on Mandatory Standard published in The Official Gazette No. 22009 of 2 August 1994 (Communique Number: 94/21-22)	TS 11394	Safety gas hose with connector and connection armatures for use in gas burning appliances (Up to 10 kPa)	<p>This standard covers safety gas hoses with connector and connection armatures to be used for gases according TS 11395 and with the working pressures up to 10 kPa.</p> <p>This standard does not cover hoses conforming to TS 6114 and TS 10670.</p>
276.	Communique on Mandatory Standard published in The Official Gazette No. 22333 of 4 July 1995 (Communique Number: 95/68-69)	TS 11394/T1		
277.	Communique on TS EN ISO 1196 Standard For Petroleum and natural gas industries - Steel drill pipe published in The Official Gazette No. 28784 of 3 October 2013 (Communique Number: MSG-MS-2013/24)	TS EN ISO 11961	Petroleum and natural gas industries - Steel drill pipe	<p>This standard specifies the technical delivery conditions for steel drill-pipes with upset pipe-body ends and weld-on tool joints for use in drilling and production operations in petroleum and natural gas industries for three product specification levels (PSL-1, PSL-2 and PSL-3). The requirements for PSL-1 form the basis of this standard. The requirements that define different levels of</p>

				<p>standard technical requirements for PSL-2 and PSL-3 are in Annex G.</p> <p>This standard covers the following grades of drill-pipe:</p> <ul style="list-style-type: none"><li>- grade E drill-pipe;</li><li>- high-strength grades of drill-pipe, grades X, G and S.</li></ul> <p>A typical drill-pipe configuration is given, showing main elements and lengths (see Figure B.1). The main dimensions and masses of the grades of drill-pipe are given in both SI units (see Table A.1) and in USC units (see Table C.1).</p> <p>This standard can also be used for drill-pipe with tool joints not specified by ISO or API standards.</p> <p>By agreement between purchaser and manufacturer, this standard can also be applied to other drill-pipe body and/or tool-joint dimensions. This standard lists supplementary requirements that can optionally be agreed between purchaser and manufacturer, for testing, performance verification and non-destructive examination (see Annex E).</p> <p>This standard does not consider performance properties.</p>
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				<p><b>NOTE 1</b> - In this standard, drill-pipe is designated by label 1, label 2, grade of material (E, X, G and S), upset type and type of rotary shouldered connection. Designations are used for the purpose of identification in ordering.</p> <p><b>NOTE 2</b> - Reference can be made to ISO 10424-2 or API Spec 7-2 for the detailed requirements for the threading of drill-pipe tool joints.</p> <p><b>NOTE 3</b> - Reference can be made to API RP 7G for the performance properties of the drill-pipe.</p>
278.	<p>Communique on TS EN 12449 Standard For Copper and copper alloys - Seamless, round tubes for general purposes published in The Official Gazette No. 30821 of 4 July 2019 (Communique Number: MSG-MS-2019/18)</p>	TS EN 12449	<p>Copper and copper alloys - Seamless, round tubes for general purposes</p>	<p>This standard specifies the composition, property requirements and tolerances on dimensions and form for seamless round drawn copper and copper alloy tubes for general purposes supplied in the size range from 3 mm up to and including 450 mm outside diameter and from 0.3 mm up to and including 20 mm wall thickness. The sampling procedures and the methods of test for verification of conformity to the requirements of this standard are also specified.</p> <p><b>NOTE</b> - Tubes having an outside diameter less than 80 mm and/or a wall thickness greater than 2 mm in certain alloys are most</p>

				frequently used for free machining purposes which are specified in EN 12168.
279.	Communique on Mandatory Standard published in The Official Gazette No. 25242 of 27 September 2003 (Communique Number: ÖSG-2003/86)	TS EN 13207	Silage thermoplastic films	This standard specifies the basic requirements for physical and mechanical characteristics of films used during the manufacture of silage and designed to last at least one year for protecting fodder.
280.	Communique on TS EN ISO 13337 Standard For Spring-type straight pins - Slotted, light duty published in The Official Gazette No. 28459 of 6 November 2012 (Communique Number: MSG-MS-2012/1331)	TS EN ISO 13337	Spring-type straight pins - Slotted, light duty	This standard specifies the characteristics of slotted spring-type straight pins, made of steel, austenitic or martensitic stainless steel, light duty with nominal diameter, d1, from 2 mm to 50 mm inclusive.
281.	Communique on TS EN 13601 Standard For Copper and copper alloys - Copper rod, bar and wire for general electrical purposes published in The Official Gazette No. 29473 of 12 September 2015 (Communique Number: MSG-MS-2015/9)	TS EN 13601	Copper and copper alloys - Copper rod, bar and wire for general electrical purposes	<p>This standard specifies the composition, property requirements including electrical properties, and tolerances on dimensions and form for copper rod, bar and wire for general electrical purposes. Cross-sections and size ranges are:</p> <ul style="list-style-type: none"> <li>- round, square and hexagonal rod with diameters or widths across-flats from 2 mm up to and including 160 mm;</li> <li>- bar with thicknesses from 2 mm up to and including 40 mm and widths from 3 mm up to and including 200 mm;</li> <li>- round, square, hexagonal and rectangular wire with diameters or widths across-flats from 2 mm up to and including 25 mm, as well as thicknesses from 0.5 mm up to and including 12 mm with widths from 1 mm up to and including 200 mm.</li> </ul>

				<p>The sampling procedures and test methods for verification of conformity to the requirements of this standard are also specified.</p> <p><b>NOTE</b> - Drawn, round copper wire plain or tinned, single or multiline for the manufacture of electrical conductors is specified in EN 13602.</p>
282.	<p>Communique on Mandatory Standard published in The Official Gazette No. 25096 of 2 May 2003 (Communique Number: MSG-MS-2019/12)</p>	TS EN ISO 14890	<p>Conveyor belts – Specification for rubber or plastics covered conveyor belts of textile construction for general use</p>	<p>This standard specifies requirements for rubber and/or plastics covered conveyor belting of textile construction for general surface use on flat or troughed idlers.</p> <p>This standard is not suitable or valid for light conveyor belts as described in ISO 21183-1.</p> <p>Items that are not requirements of this standard, but need to be agreed between the manufacturer and the purchaser, are included in Annex A. A list of the details intended to be supplied by the purchaser of belting with an enquiry is given in Annex B.</p>
283.	<p>Communique on Mandatory Standard published in The Official Gazette No. 25108 of 14 May 2003 (Communique Number: ÖSG-2003/55)</p>	TS EN ISO 15481	<p>Cross recessed pan head drilling screws with tapping screw thread</p>	<p>This standard specifies the characteristics of cross recessed pan head drilling screws with tapping screw threads from ST 2.9 up to and including ST 6.3.</p>
284.	<p>Communique on Mandatory Standard published in The Official Gazette No. 25108</p>	TS EN ISO 15482	<p>Cross recessed countersunk head drilling screws</p>	<p>This standard specifies the characteristics of recessed countersunk head drilling screws</p>

	of 14 May 2003 (Communique Number: ÖSG-2003/56)		with tapping screw thread	with tapping screw threads form ST 2.9 up to and including 6.3.
285.	Communique on Mandatory Standard published in The Official Gazette No. 25108 of 14 May 2003 (Communique Number: ÖSG-2003/57)	TS EN ISO 15483	Cross recessed raised countersunk head drilling screws with tapping screw thread	This standard specifies the characteristics of cross recessed countersunk head drilling screws with tapping screw threds from ST 2.9 up to and including ST 6.3
286.	Communique on TS EN 16983 Standard For Disc springs - Quality specifications - Dimensions published in The Official Gazette No. 30734 of 3 April 2019 (Communique Number: MSG-MS-2019/9)	TS EN 16983	Disc springs - Quality specifications - Dimensions	This standard specifies the set of requirements that ensure the correct functioning of disc spring. These include requirements relating to the materials and manufacturing process, tolerances on dimensions and spring forces, and also the permissible relaxation and fatigue life of such springs as a function of stress. All requirements specified here are minimum requirements. This standard covers three dimensional series of disc springs.  <b>NOTE</b> - In this standard, disc springs are divided into three groups and three dimensional series. Classification into groups is based on the manufacturing process, which is a function of the material thickness. The assignment of disc springs to dimensional series is governed by the h0/t ratio.
287.	Communique on TS EN 22568 Standard For Hand and machine-Operated Circular Screwing Dies and Hand-Operated Die Stocks published in The Official Gazette No.	TS EN 22568	Hand and machine-Operated Circular Screwing Dies and Hand-	This standard covers the general dimensions of hand-operated and machine-operated screwing dies. Depending on the screw



	30995 of 31 December 2019 (Communique Number: MSG-MS-2019/33)		Operated Die Stocks	<p>diameters and pitches, these dimensions are given below,:</p> <ul style="list-style-type: none"> <li>- Outer diameter</li> <li>- Thickness</li> <li>- Cutting zone length</li> <li>- General connection dimensions.</li> </ul> <p>This standard also specifies the interchangeability dimensions of hand-operated die stocks.</p>
288.	Communique on Mandatory Standard published in The Official Gazette No. 25096 of 2 May 2003 (Communique Number: ÖSG-2003/34)	TS EN 50182	Conductors for overhead lines- Round wire concentric lay stranded conductors	<p>This standard specifies the electrical and mechanical characteristics of round wire concentric lay bare overhead electrical conductors stranded in alternate directions, with or without grease as per EN 50326, made of one or a combination of any of the following:</p> <ul style="list-style-type: none"> <li>a) Hard drawn Aluminium as per EN 60889 designated AL1</li> <li>b) Aluminium alloy as per EN 50183 designated AL2 to AL7</li> <li>c) Zinc coated steel wire as per EN 50189 with grade and class designated ST1A, ST2B, ST3D, ST4A, ST5E, and ST6C.</li> <li>d) Aluminium-clad steel wire as per EN 61232 with class designation 20SA (grades A and B), 27SA, 30SA and 40SA.</li> </ul>

				Conductors made of zinc coated steel wires only are not included.
289.	Communique on Mandatory Standard published in The Official Gazette No. 24834 of 2 August 2002 (Communique Number: ÖSG-2003/48)	TS EN 50189	Conductors for overhead lines - Zinc coated steel wires	This standard applies to round zinc-coated steel wires used in the construction and/or reinforcement of conductors for overhead power transmission purposes.
290.	Communique on TS EN 60076-1 Standard For Power transformers - Part 1: General published in The Official Gazette No. 28988 of 2 May 2014 (Communique Number: MSG-MS-2014/3)	TS EN 60076-1	Power transformers - Part 1: General	<p>This part of IEC 60076 applies to three-phase and single-phase power transformers (including auto-transformers) with the exception of certain categories of small and special transformers such as:</p> <ul style="list-style-type: none"> <li>– single-phase transformers with rated power less than 1 kVA and three-phase transformers less than 5 kVA;</li> <li>– transformers, which have no windings with rated voltage higher than 1 000 V;</li> <li>– instrument transformers;</li> <li>– traction transformers mounted on rolling stock;</li> <li>– starting transformers;</li> <li>– testing transformers;</li> <li>– welding transformers;</li> <li>– explosion-proof and mining transformers;</li> <li>– transformers for deep water (submerged) applications.</li> </ul>

				When IEC standards do not exist for such categories of transformers (in particular transformer having no winding exceeding 1000 V for industrial applications), this part of IEC 60076 may still be applicable either as a whole or in part.
291.	Communique on Mandatory Standard published in The Official Gazette No. 23308 of 5 April 1998 (Communique Number: 98/14-15)	TS EN 60099-4	Surge arresters- Part 4: Metal oxide surge arresters without gaps for A.C. systems	This standard applies to non-linear metal-oxide resistor type surge orresters without spork gaps designed to limit voltage surges on a.c. power circuits.
292.	Communique on Mandatory Standard published in The Official Gazette No. 26615 of 16 August 2007 (Communique Number: ÖSG-2007/(27))	TS EN 60254-1	Lead-acid traction batteries - Part 1: General requirements and methods of test	<p>This part of IEC 60254 is applicable to lead-acid traction batteries used as power sources for electric propulsion.</p> <p>The tests defined are relevant to all traction battery applications which include road vehicles, locomotives, industrial trucks and mechanical handling equipments. Tests which may be used specifically to test batteries developed for use in vehicles such as light passenger vehicles, motor cycles, light commercial vehicles, etc. may be found in alternative standards e.g. IEC 61982-2.</p> <p>The object of this standard is to specify certain essential characteristics of traction batteries or cells, together with the relevant test methods of those characteristics.</p> <p>Although Part 2 of this standard defines dimensions of commonly used traction cells,</p>

				the tests in Part 1 may be applied to cells and monobloc batteries of other dimensions, if the application is appropriate.
293.	Communique on TS EN 60282-1 Standard For High-voltage fuses - Part 1: Current-limiting fuses published in The Official Gazette No. 31012 of 18 January 2020 (Communique Number: MSG-MS-2019/31)	TS EN 60282-1	High-voltage fuses - Part 1: Current-limiting fuses	<p>This part of IEC 60282 applies to all types of high-voltage current-limiting fuses designed for use outdoors or indoors on alternating current systems of 50 Hz and 60 Hz and of rated voltages exceeding 1 000 V.</p> <p>Some fuses are provided with fuse-links equipped with an indicating device or a striker. These fuses come within the scope of this standard, but the correct operation of the striker in combination with the tripping mechanism of the switching device is outside the scope of this standard; see IEC 62271-105.</p>
294.	Communique on Mandatory Standard published in The Official Gazette No. 23650 of 25 March 1999 (Communique Number: ÖSG-99/16-17)	TS EN 60383-1	Insulators for overhead lines with a nominal voltage above 1000V Part 1: Ceramic or glass insulator units for a.c. systems- Definitions, Test methods and acceptance criteria.	<p>This part of IEC 383 applies to insulators of ceramic material or glass for use on a.c. overhead power lines and overhead traction lines with a nominal voltage greater than 1000 V and a frequency not greater than 100 Hz.</p> <p>It also applies to insulators for use on d.c. overhead electric traction lines.</p> <p>This part applies to string insulator units, rigid overhead line insulators and to insulators of similar design when used in substations.</p>

				<p>It does not apply to insulators forming parts of electrical apparatus or to parts used in their construction or to post insulators which are covered by IEC 168: Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1 000 V.</p> <p>It may be regarded as a provisional standard for insulators for use on d.c. overhead power lines. IEC 438: Tests and dimensions for high-voltage d.c. insulators, gives general guidance for those insulators.</p> <p><b>NOTE</b> - An international standard dealing with tests on insulators for d.c. overhead lines is in preparation and is intended to replace the relevant clauses of IEC 438.</p> <p>Tests on insulator strings and insulator sets (for example, wet switching impulse voltage) are dealt with in part 2 of IEC 383.</p> <p><b>NOTES</b></p> <p><b>1</b> - This part does not include artificial pollution tests, radio-interference tests or residual strength tests.</p> <p>These subjects and relevant test methods are dealt with in the following IEC reports:</p> <p>IEC 437: Radio interference test on high-voltage insulators</p>
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				<p>IEC 507: Artificial pollution tests on high-voltage insulators to be used on a.c. systems</p> <p>IEC 797: Residual strength of string insulator units of glass or ceramic material for overhead lines after mechanical damage of the dielectric.</p> <p><b>2</b> - The term "ceramic material" is used in this part to refer to porcelain materials and, contrary to North American practice, does not include glasses.</p> <p>The object of this part is:</p> <ul style="list-style-type: none"><li>- to define the terms used;</li><li>- to define insulator characteristics and to prescribe the conditions under which the specified values of these characteristics shall be verified;</li><li>- to prescribe test methods;</li><li>- to prescribe acceptance criteria.</li></ul> <p>This part does not include requirements dealing with the choice of insulators for specific operating conditions.</p> <p><b>NOTE</b> - A guide for the choice of insulators under polluted conditions has been published, see IEC 815.</p> <p>Numerical values for insulator characteristics are specified in IEC 305, IEC 433 and IEC 720.</p>
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<p>295.</p>	<p>Communique on Mandatory Standard published in The Official Gazette No. 23657 of 5 April 1999 (Communique Number: 99/17-18)</p>	<p>TS EN 60383-2</p>	<p>Insulators for overhead lines with a nominal voltage above 1000 V - Part 2: Insulator strings and insulator sets for a.c. systems - Definitions, test methods and acceptance criteria</p>	<p>This standard covers insulator strings and insulator sets consisting of string string insulator units made of ceramic material or glass used on a.c. overhead power lines with a nominal voltage greater than 1000 Volts and a frequency not greater than 100 Hz.</p> <p>This standard is also applied to insulator strings and insulator sets used in direct current power transmission lines.</p> <p>This standard applies to string insulator units and insulator sets of similar design when used in power distribution and transformer substations.</p> <p>This standard can be regarded as a temporary standard for insulator strings, insulator sets and composite insulator sets used in direct current power transmission lines.</p> <p>The purpose of this standard is to describe standard electrical test procedures and acceptance criteria to verify the defined characteristics of insulator strings and insulator sets covered by this standard.</p> <p>The purpose of these tests and characteristics is to provide a common basis for designers, users and suppliers of power transmission line, insulator and line equipment when the description, evaluation or verification of the</p>
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				<p>electrical characteristics of such equipment is required.</p> <p>These tests on insulators, whether supplied individually, in strings or in sets, are not intended to be mandatory tests.</p> <p><b>NOTES</b></p> <p>1- Tests on chain insulator units are covered in IEC 60383-1. Tests on combined insulators are reviewed in IEC 61109.</p> <p>2- This standard does not contain artificial contamination or radio interference tests. These subjects and related test methods are examined in the following IEC standards.</p> <p>IEC 60437: Radio Interference Test on High Voltage Insulators</p> <p>IEC 60507: Artificial Contamination Tests for High Voltage Insulators Used in Alternating Current Systems.</p> <p>3- Investigations of power arc experiments are still ongoing.</p>
296.	<p>Communique on TS EN 60708 Standard For Low-frequency cables with polyolefin insulation and moisture barrier polyolefin sheath published in The Official Gazette No. 28451 of 24 October 2012 (Communique Number: MSG-MS-2012/29)</p>	TS EN 60708	<p>Low-frequency cables with polyolefin insulation and moisture barrier polyolefin sheath</p>	<p>This standard is intended to define polyolefin-insulated cables for insertion into local outdoor networks.</p> <p>This standard is applicable to polyolefin insulated and moisture barrier polyolefin</p>



				<p>sheathed telephone cables, filled or unfilled with copper conductors, and used as:</p> <ol style="list-style-type: none"> <li>a) Cables suitable for installation in ducts.</li> <li>b) Cables suitable for direct burial in the ground.</li> <li>c) Cables with integral suspension strand for aerial installations.</li> </ol> <p>This standard is in accordance with ITU-T Recommendations.</p> <p>This standard includes general design details and requirements for dimensions and other constructional details as well as mechanical, electrical and environmental characteristics for all types of low-frequency cables with polyolefin insulation (solid or cellular), filled or unfilled, and moisture barrier polyolefin sheath (with integral suspension strand).</p>
297.	<p>Communique on TS IEC 60189-2 Standard For Low-frequency cables and wires with PVC insulation and PVC sheath - Part 2: Cables in pairs, triples, quads and quintuples for inside installations published in The Official Gazette No. 28389 of 22 August 2012 (Communique Number: MSG-MS-2012/20)</p>	TS IEC 60189-2	<p>Low-frequency cables and wires with PVC insulation and PVC sheath - Part 2: Cables in pairs, triples, quads and quintuples for inside installations</p>	<p>This part of IEC 60189 is applicable to cables for inside installations, intended for the interconnection of the following:</p> <ul style="list-style-type: none"> <li>- transmission equipment;</li> <li>- telecommunications equipment;</li> <li>- equipment for data processing.</li> </ul> <p><b>NOTE</b> - It is the responsibility of the manufacturer to establish quality assurance by quality control procedures which will ensure that the product will meet the requirements of this standard. It is not</p>

				intended that a complete testing programme must be carried out on every length of conductor and cable. When the purchaser wishes to specify acceptance tests or other quality procedures, it is essential that agreement be reached between the purchaser and the manufacturer by the time of ordering.
298.	Communique on TS IEC 60189-3 Standard For Low-frequency cables and wires with PVC insulation and PVC sheath - Part 3: Equipment wires with solid or stranded conductor wires, PVC insulated, in singles, pairs and triples published in The Official Gazette No. 28445 of 18 October 2012 (Communique Number: MSG-MS-2012/27)	TS IEC 60189-3	Low-frequency cables and wires with PVC insulation and PVC sheath - Part 3: Equipment wires with solid or stranded conductor wires, PVC insulated, in singles, pairs and triples	<p>This part of IEC 60189 is applicable to equipment wires with solid or stranded conductor, polyvinyl chloride (PVC) insulated, in singles, pairs and triples to be used for internal wiring of telecommunication equipment, industrial and consumer electronic equipment.</p> <p><b>NOTE</b> - It is the responsibility of the manufacturer to establish quality assurance by quality control procedures which will ensure that the product will meet the requirements of this standard. It is not intended that a complete testing programme must be carried out on every length of conductor. When the purchaser wishes to specify acceptance tests or other quality procedures, it is essential that agreement be reached between the purchaser and the manufacturer by the time of ordering.</p>
299.	Communique on Mandatory TS IEC 60502-4 Standard published in The Official Gazette	TS IEC 60502-4	Power cables with extruded insulation and their	This part of IEC 60502 specifies the test requirements for type testing of accessories for power cables with rated voltages from

	<p>No. 29600 of 21 January 2016 (Communique Number: MSG-MS-2016/2)</p>		<p>accessories for rated voltages from 1 kV (Um= 1,2 kV) up to 30 kV (Um= 36 kV) – Part 4: Test requirements on accessories for cables with rated voltages from 6 kV (Um= 7,2 kV) up to 30 kV (Um= 36 kV)</p>	<p>3,6/6 (7,2) kV up to 18/30 (36) kV, complying with IEC 60502-2.</p> <p>Accessories for special applications, such as aerial cables, submarine or ship cables or hazardous situations (explosive environments, fire-resistant cables or seismic conditions), are not included.</p> <p>It is not necessary to repeat these tests, once successfully completed, unless changes are made in the materials, design or manufacturing process which might affect the performance characteristics.</p> <p>Test methods are included in IEC 61442.</p> <p><b>NOTE</b> - This standard does not invalidate existing approvals of products achieved on the basis of national standards and specifications and/or the demonstration of satisfactory service performance. However, products approved according to such national standards or specifications cannot directly claim approval to this IEC standard. It may be possible, subject to agreement between supplier and purchaser, and/or the relevant conformity assessment body, to demonstrate that conformity to the earlier standard can be used to claim conformity to this standard, provided an assessment is made of any additional type testing that may need to be carried out. Any such additional testing that</p>
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				is part of a sequence of testing cannot be done separately.
300.	Communique on Mandatory Standard published in The Official Gazette No. 23670 of 19 July 1999 (Communique Number: ÖSG-99/43-44)	TS IEC 60535	Jet fans and regulators	This standard covers jet fans and regulators up to 250 volts a.c. or. d.c.
301.	Communique on Mandatory Standard published in The Official Gazette No. 27539 of 1 April 2010 (Communique Number: ÖSG-2010/5)	TS IEC 60989	Separating transformers, autotransformers, variable transformers and reactors	<p>This standard is applicable to stationary or portable, single-phase or polyphase, air-cooled separating transformers, autotransformers, variable transformers and small reactors, associated or not, having a rated supply voltage not exceeding 1 000 V a.c., a rated frequency not exceeding 500 Hz, a rated no-load or load output voltage not exceeding 15 kV a.c. or d.c. and a rated output not exceeding:</p> <ul style="list-style-type: none"> <li>– single-phase transformers: 1 kVA</li> <li>– single-phase reactors: 2 kVAR</li> <li>– polyphase transformers: 5 kVA</li> <li>– polyphase reactors: 10 kVAR</li> </ul> <p>unless otherwise specified in the relevant chapters.</p> <p>This standard is applicable to transformers where double or reinforced insulation between circuits is not required by the installation rules or by the appliance specification.</p>

				<p>The technological development of transformers might imply a need to increase the higher limit of the rated frequency.</p> <p>This standard is also applicable to transformers associated with specific items of equipment, to the extent decided upon by the relevant IEC Technical Committees.</p> <p>Normally, the transformers are intended to be associated with equipment to provide voltages different from the supply voltage for the functional requirement of the equipment. The safety insulation may be provided (or completed) by other features of the equipment, such as the body. Parts of output circuits may be connected to the input circuit or to protective earth.</p> <p>This standard is applicable to dry type or encapsulated transformers.</p> <p>For transformers filled with liquid dielectric or pulverized material, such as sand, requirements are under consideration.</p>
302.	Communique on Mandatory Standard published in The Official Gazette No. 27699 of 14 September 2010 (Communique Number: ÖSG-2010/24)	TS ISO 246	Rolling bearings - Cylindrical roller bearings, separate thrust collars - Boundary dimensions	<p>This standard specifies the width, the maximum outside diameter, the bore and the bore minimum chamfer of separate thrust collars for cylindrical roller bearings in diameter series 0, 2, 3, and 4 as specified in ISO 15.</p> <p>Dimensions for overall width and other geometrical features are not specified as they</p>

				are dependent on the internal design of the bearings.
303.	Communique on TS ISO 254 Standard For Belt drives - Pulleys - Quality, finish and balance published in The Official Gazette No. 30894 of 20 September 2019 (Communique Number: MSG-MS-2019/21)	TS ISO 254	Belt drives - Pulleys - Quality, finish and balance	<p>This standard specifies the characteristics of quality which are common to all transmission pulleys. It establishes specific quality levels for the finish and balance of transmission pulleys and test pulleys.</p> <p>This standard is applicable to transmission pulleys for V-belts, V-ribbed belts, flat or synchronous belts; it does not apply to those pulleys for variable speed drives that have one or more moving flanges.</p> <p>The other characteristics of transmission pulleys can be found in the relevant International Standards.</p>
304.	Communique on Mandatory Standard published in The Official Gazette No. 25239 of 24 September 2003 (Communique Number: ÖSG-2003/88)	TS ISO 1174-2	Assembly tools for screws and nuts - Driving squares Part 2: Driving squares for power hand socket tools	<p>This part of ISO 1175 specifies the dimensions and designation of driving squares for power socket tools.</p> <p>Manually operated power hand socket tools are given in 1174-1.</p>
305.	Communique on TS ISO 2725-1 Standard For Assembly tools for screws and nuts - Square drive sockets - Part 1: Hand-operated sockets published in The Official Gazette No. 30062 of 10 May 2017 (Communique Number: MSG-MS-2017/8)	TS ISO 2725-1	Assembly tools for screws and nuts - Square drive sockets - Part 1: Hand-operated sockets	<p>This part of ISO 2725 specifies dimensions, the designation, and the marking of hand-operated square drive sockets with operating end and having a hexagonal or double hexagonal form in accordance with ISO 1174-1.</p>

				<p><b>NOTE 1</b> - Hand-operated square drive sockets are listed under number 2 1 02 01 0 in ISO 1703.</p> <p><b>NOTE 2</b> - The figures in this part of ISO 2725 are given only as examples. They are not intended to influence the manufacturer's design.</p>
306.	<p>Communique on Mandatory Standard published in The Official Gazette No. 25239 of 24 September 2003 (Communique Number: ÖSG-2003/88)</p>	TS ISO 2725-3	<p>Assembly tools for screws and nuts - Squares drive sockets Part 3: Machine - operated sockets ("non impact") - Dimensions</p>	<p>This part of ISO 2725 specifies dimensions, designation and marking of machine operated "non-impact" square drive sockets.</p> <p><b>NOTE 1</b> - Machine operated "non-impact" square drive sockets are listed under number 301 in ISO 1703:1983.</p> <p><b>NOTE 2</b> - Hand-operated sockets are dealt with in ISO 2725-1. Machine-operated "impact" sockets are dealt with in ISO 2725-2.</p>
307.	<p>Communique on TS ISO 3315 Standard For Assembly tools for screws and nuts - Squares drive sockets Part 3: Machine - operated sockets ("non impact") - Dimensions published in The Official Gazette No. 30656 of 15 January 2019 (Communique Number: MSG-MS-2018/3)</p>	TS ISO 3315	<p>Assembly tools for screws and nuts - Squares drive sockets Part 3: Machine - operated sockets ("non impact") - Dimensions</p>	<p>This standard is applicable to the driving parts of hand-operated square drive socket wrenches identified in ISO 1703 under designations 6 1 00 04 0, 6 1 00 06 0, 6 1 00 06 1, 6 1 00 09 0, 6 1 00 10 0, 6 1 00 10 1, 6 1 00 01 0, 6 1 00 01 1, 6 1 00 03 0, 6 1 00 05 0 and 6 1 00 05 1.</p> <p><b>NOTE</b> - These designations correspond to the former (old) designation numbers 253, 255, 256, 257, 251, 252 and 254.</p> <p>It specifies</p>

				<ul style="list-style-type: none"> <li>a) the overall dimensions,</li> <li>b) the minimum Rockwell hardness value for their squares,</li> <li>c) the method of torque testing,</li> <li>d) the minimum torsional strength values,</li> <li>e) the method endurance of testing for ratchet handles,</li> <li>f) designation, and</li> <li>g) marking.</li> </ul>
308.	<p>Communique on TS ISO 3317 Standard For Assembly tools for screws and nuts - Square drive adaptor with hexagon or cylindrical flat drive, for power socket wrenches published in The Official Gazette No. 31074 of 20 March 2020 (Communique Number: MSG-MS-2020/27)</p>	TS ISO 3317	<p>Assembly tools for screws and nuts - Square drive adaptor with hexagon or cylindrical flat drive, for power socket wrenches</p>	<p>This standard prescribes the technical specifications for square drive adaptor hexagon or cylindrical flat inserts for power socket wrenches. It applies to square drive adaptor with hexagon drive or with cylindrical flat end drive as defined in ISO 1173, and to driving squares for power socket wrenches as defined in ISO 1174-2.</p> <p>Square drive adaptors with hexagon drive for power socket wrenches are listed under number 5 2 00 02 0 in ISO 1703.</p>
309.	<p>Communique on Mandatory Standard published in The Official Gazette No. 27975 of 5 December 2008 (Communique Number: ÖSG-2008/16)</p>	TS ISO 3996	<p>Road vehicles - Brake hose assemblies for hydraulic braking systems used with non-petroleum-base brake fluid</p>	<p>This standard specifies the test procedures for, and performance requirements and marking of hydraulic brake hose assemblies to be used in hydraulic brake systems of road vehicles of which the nominal inside diameter of the hose is 3, 2 mm or 4, 8 mm. Applies to assemblies made of a hose fabricated from cord and synthetic elastomers and assembled with metal end fittings for use</p>



				with non-petroleum-base brake fluids in accordance with ISO 4925.
310.	Communique on Mandatory Standard published in The Official Gazette No. 27601 of 4 June 2010 (Communique Number: ÖSG-2010/12)	TS ISO 5251	Stainless steel butt welding fittings	This standard, specifies the dimensions, tolerances, and the generally used grades of stainless steel for butt welding bends Type 3D (90 and 180 degree) With and without straight straight ends and type 5D (90 degree)concentric and eccentric reducer, tees caps and stub ends with requirements as used for piping work.
311.	Communique on TS ISO 5290 Standard For Belt drives - Grooved pulleys for narrow V - belts - Groove sections 9N/J, 15N/J and 25N/J (effective system) published in The Official Gazette No. 30894 of 20 September 2019 (Communique Number: MSG-MS-2019/22)	TS ISO 5290	Belt drives - Grooved pulleys for narrow V - belts - Groove sections 9N/J, 15N/J and 25N/J (effective system)	This standard specifies the principal characteristics of grooved pulleys (for groove sections 9N/J, 15N/J and 25N/J) intended to take both single and joined narrow V-belts for industrial power transmission drives. Some background information on the series of effective diameters is given in annex A.  <b>NOTE</b> - The effective width of a groove is regarded as the basic dimension of standardization in the effective system for grooves and for the corresponding narrow V-belts considered as a whole.
312.	Communique on TS ISO 5291 Standard For Belt drives - Grooved pulleys for joined classical V-Belts - Groove sections AJ, BJ, CJ and DJ (Effective System) published in The Official Gazette No. 30894 of 20 September 2019 (Communique Number: MSG-MS-2019/23)	TS ISO 5291	Belt drives - Grooved pulleys for joined classical V-Belts - Groove sections AJ, BJ, CJ and DJ (Effective System)	This standard specifies the principal characteristics of grooved pulleys (for groove sections AJ, BJ, CJ and DJ), intended to take joined classical V-belts for industrial power transmission drives.  <b>NOTE 1</b> - The effective width of a groove is regarded as the basic dimension of

				<p>standardization for grooves and for the corresponding joined V-belts considered as a whole.</p> <p><b>NOTE 2</b> - The pitch line position can only be given approximately. The approximate pitch diameter of a pulley can be calculated by the following formula:</p> $d_p = d_e - 2b_e$
313.	<p>Communique on TS ISO 6194-1 Standard For Rotary shaft lip-type seals incorporating elastomeric sealing elements - Part 1: Nominal dimensions and tolerances published in The Official Gazette No. 28496 of 13 December 2012 No. 28496 (Communique Number: MSG-MS-2012/37)</p>	TS ISO 6194-1	<p>Rotary shaft lip-type seals incorporating elastomeric sealing elements - Part 1: Nominal dimensions and tolerances</p>	<p>This part of ISO 6194 describes seals utilising elastomeric sealing elements. They are considered suitable for use under low-pressure conditions (see 6.1).</p> <p>This part of ISO 6194 shows seal types and examples. It also specifies the nominal dimensions and tolerances of the seals, shafts and housings, as well as a dimensional identification code.</p> <p><b>NOTE</b> - ISO 6194 is complementary to ISO 16589 which covers seals incorporating thermoplastic sealing elements.</p>
314.	<p>Communique on TS ISO 6194-4 Standard For Rotary shaft lip-type seals incorporating elastomeric sealing elements - Part 4: Performance test procedures published in The Official Gazette No. 28932 of 5 March 2014 (Communique Number: MSG-MS-2014/1)</p>	TS ISO 6194-4	<p>Rotary shaft lip-type seals incorporating elastomeric sealing elements - Part 4: Performance test procedures</p>	<p>This part of ISO 6194 specifies test requirements for rotary shaft lip type seals. The tests may be used for qualification purposes. Materials quality control, dynamic testing and supplementary low temperature testing requirements are also covered.</p>

315.	<p>Communique on Mandatory Standard published in The Official Gazette No. 23785 of 13 August 1999 (Communique Number: ÖSG-99/84-85)</p>	TS ISO 7375-2	<p>Road vehicles - Coiled tube assemblies for air brake connection between towing and towed vehicles Part 2: Performance requirements</p>	<p>This part of ISO 7375 specifies the minimum requirements for coiled tube assemblies manufactured from thermoplastic tubing and with suitable end fittings.</p> <p>It applies to coiled tube assemblies for vehicle combinations equipped with air brake systems.</p> <p>This part of ISO 7375 does not apply to other thermoplastic tubing used in brake systems.</p> <p>The coiled tube assemblies covered by this part of ISO 7375 belongs to two possible categories:</p> <ul style="list-style-type: none"> <li>- tube assemblies for use up to a maximum working pressure of 1 000 kPa;</li> <li>- tube assemblies for use up to a maximum working pressure of 1 250 kPa;</li> </ul> <p>and within a temperature range between - 40 °C and + 100 °C.</p>
316.	<p>Communique on TS ISO 9981 Standard For Belt drives - Pulleys and V-ribbed belts for the automotive industry - PK profile: Dimensions published in The Official Gazette No. 30894 of 20 September 2019 (Communique Number: MSG-MS-2019/25)</p>	TS ISO 9981	<p>Belt drives - Pulleys and V-ribbed belts for the automotive industry - PK profile: Dimensions</p>	<p>This standard specifies the principal dimensional characteristics of V-ribbed pulley groove profiles, together with the corresponding endless V-ribbed belts of PK profile which are used predominantly for automotive accessory drive applications. The complete array of V-ribbed belts and pulleys of PH, PJ, PK, PL and PM profile for industrial and other nonautomotive applications is the subject of ISO 9982. PK</p>

				belt profile dimensions and tolerances are the same in both International Standards.
317.	<p>Communique on TS ISO 9982 Standard For Belt drives - Pulleys and V-ribbed belts for industrial applications - PH, PJ, PK, PL and PM profiles: Dimensions published in The Official Gazette No. 30894 of 20 September 2019 (Communique Number: MSG-MS-2019/26)</p>	TS ISO 9982	<p>Belt drives - Pulleys and V-ribbed belts for industrial applications - PH, PJ, PK, PL and PM profiles: Dimensions</p>	<p>This standard specifies the principal dimensional characteristics of V-ribbed pulley groove profiles, together with the corresponding endless V-ribbed belts, of PH, PJ, PK, PL and PM profiles which are used for general industrial applications.</p> <p>The PK belt was originally established for automotive accessory drive applications and ISO 9981 deals specifically with that particular field.</p>