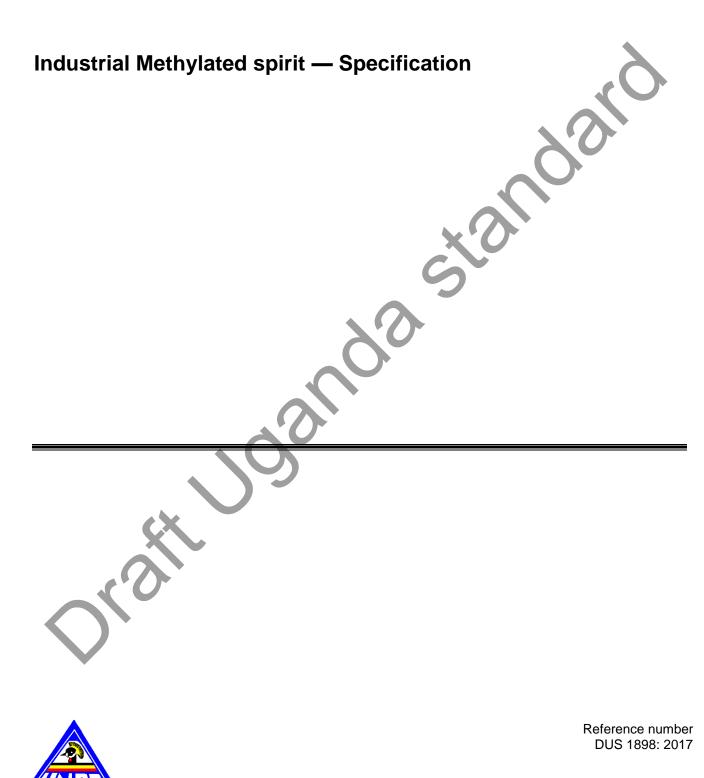
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DRAFT UGANDA STANDARD

First Edition 2017-mm-dd



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Foreword

Uganda National Bureau of Standards (UNBS) is a parastatal under the Ministry of Trade, Industry and Cooperatives established under Cap 327, of the Laws of Uganda, as amended. UNBS is mandated to coordinate the elaboration of standards and is

(a) a member of International Organisation for Standardisation (ISO) and

(b) a contact point for the WHO/FAO Codex Alimentarius Commission on Food Standards, and

(c) the National Enquiry Point on TBT Agreement of the World Trade Organisation (WTO)

The work of preparing Uganda Standards is carried out through Technical Committees. A Technical Committee is established to deliberate on standards in a given field or area and consists of key stakeholders including government, academia, consumer groups, private sector and other interested parties.

Draft Uganda Standards adopted by the Technical Committee are widely circulated to stakeholders and the general public for comments. The committee reviews the comments before recommending the draft standards for approval and declaration as Uganda Standards by the National Standards Council.

The committee responsible for this document is Technical Committee UNBS/TC 5, Chemicals and Environment.

Industrial Methylated Spirit — Specification

1 Scope

This draft Uganda standard specifies requirements, test and sampling methods for industrial methylated spirit.

2 Normative references

The following referenced documents referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

FDUS ISO 24153 —. Random sampling and randomisation procedures

US EAS 104 — Alcoholic beverages — Methods of sampling and test

US ISO 7010 — Graphical symbols safety colours and safety signs — Registered safety

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply. ISO and IEC maintain terminological databases for use in standardization at the following addresses: — ISO Online browsing platform: available at http://www.iso.org/obp

3.1

Methylated spirit

ethyl alcohol denatured with methyl alcohol or other denaturing agents like wood naphtha, Isopropyl alcohol and pyridine for the purpose of preventing its use as an alcoholic beverage.

3.2

sedimentation

separation of particles from the fluid in which they are suspended, by the action of gravity.

3.3

specific gravity

mean the ratio of the mass of a given volume of the sample at the specified temperature to the mass of an equal volume of distilled water at the same temperature

4 General requirements

4.1 Appearance

The product shall be clear, volatile liquid and free from sedimentation. It shall have a characteristic odour and shall be miscible with water.

4.2 Weights and measures

The fill and volume of the material shall comply with the requirements of the Weights and Measures Act.

4.3 Safety

The product shall have no adverse effects on the human health and environment when it is used for its intended purpose.

4.4 Quality requirements

The product shall comply with the requirements given in table 1

Table 1 — Industrial I	methylated spirit —	quality requirements
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Characteristic	Requirement	Test method
Specific gravity at 20°C	0.7900 – 0.8135	US EAS 104
Ethanol content at 20°C,% v/v min	95	US EAS 104
Acidity (as acetic acid), percent by weight, max	0.01	US EAS 104
Aldehydes (as acetaldehyde):),g/l, max	1.00	US EAS 104
Non – volatile matter, % w/v, max	0.01	Annex A
Methanol content ,% w/v max	2	US EAS 104

5 Packing and Labelling

5.1 Packing

The material in which the product is packaged shall not react chemically with the product and shall be strong enough to protect the product adequately during normal handling, transportation and storage.

5.2 labelling

5.2.1 Each container and each bulk package shall bear in prominent, legible and indelible marking the information required in terms of the Weights and Measures Act, and the following additional information:

- a) manufacturer's name and physical address;
- b) name of the product 'Industrial methylated spirit';
- c) ethyl alcohol content, % by volume;
- d) net mass of the material when packed;

e) instructions for use;

- f) warnings/precautions;
- g) country of origin
- h) storage recommendation;
- i) date of manufacture and expiry; and

- j) batch identification number/code
- 5.2.2 Each package shall be marked with appropriate safety symbols as specified in US ISO 7010.

6 Sampling

Samples shall be taken randomly and tested for compliance with the requirements of the standard.in accordance with FDUS ISO 24153.

Annex A (normative)

Non-volatile matter

A.1 Apparatus

- A.1.1 Water bath
- A.1.2 Oven
- A.1.3 Analytical balance
- A.1.4 Desiccator
- A.1.5 Evaporation dish

A.2 Procedure

A.2.1 Evaporate 50 ml of sample in a dried tared dish on the water bath in a well ventilated hood and wipe the external sides of the dish

A.2.2 Place the dish with the residue in the oven maintained at 105 °C \pm 1°C for 1 h. Cool the dish in a desiccator and weigh the dish. Repeat until a constant is obtained.

A.3 Calculation

Non- volatile matter, % w/v = $\frac{W1 - W}{W1 - W}$

Where;

- W_1 weight of evaporating dish with dry residue in grams,
- W weight of evaporating dish in grams,
- V volume of sample taken in millilitres

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Bibliography

- [1] British Pharmacopoeia, 2015
- [2] Indian Standard 323 of 1959 Specification for rectified spirit
- [3] Kenya Methylated Spirit 07/07/2017
- [4] Pharmacopoeia of India, Third Edition, 1985
- [5] US EAS 109:1987, Potable spirit Specification

Certification marking

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