

# هيئة التقييس لدول مجلس التعاون لدول الخليج العربية

## GCC STANDARDIZATION ORGANIZATION (GSO)

مشروع مواصفة نهائي

Final Draft of Standard FDS

اللجنة الفنية الخليجية للمواصفات الغذائية والزراعية رقم TC05

Prepared by GSO Technical Committee for Food and Agricultural  
Products No. TC05

تحديث

شراب الشعير الخالي من الكحول

NON ALCOHOLIC MALT BEVERAGE

I.C.S: 67.160.20

This document is a draft GSO Standard circulated for comments. It is, therefore, subject to alteration and modification and may not be referred to as a GSO Standard until approved by GSO.

هذه الوثيقة مشروع لمواصفة قياسية خليجية تم توزيعها لإبداء الرأي والملاحظات بشأنها، لذلك فإنها عرضة للتغيير والتبديل، ولا يجوز الرجوع إليها كمواصفة قياسية خليجية إلا بعد اعتمادها من الهيئة.

## Foreword

GCC Standardization Organization (GSO) is a regional Organization which consists of the National Standards Bodies of GCC member States. One of GSO main functions is to issue Gulf Standards /Technical regulations through specialized technical committees (TCs).

GSO through the technical program of committee TC No (5) " Technical committee for standards of food and agriculture products " has prepared this Standard. The Draft Standard has been prepared by kingdom of Saudi Arabia.

The draft Standard has been prepared based on relevant ADMO, International and National foreign Standards and references.

This standard has been approved as a Gulf Technical regulation by GSO Board of Directors in its meeting No. ( ), held on / / h ( / / ).

## MALT BEVERAGE

### 1- SCOPE AND FIELD OF APPLICATION

This GSO standard is concerned with non alcoholic malt beverage intended for direct human consumption.

### 2- COMPLEMENTARY REFERENCES

- 2.1 GSO 9 “Labelling of Prepackaged Foods”.
- 2.2 GSO 21 “Hygienic Regulations for Food Plants and Their Personnel”.
- 2.3 GSO 149 “Un-Bottled Drinking Water”.
- 2.4 GSO 1016 “Non-Alcoholic Carbonated Beverages - Determination of Carbon Dioxide Content”.
- 2.5 2.4 GSO 1016 “Microbiological Criteria for Foodstuffs”.
- 2.6 GSO 150-2 “Expiration dates for food products - Part 2 :Voluntary expiration dates”.
- 2.7 GSO ISO 9003 “Methods of Test for Malt Beverage”.
- 2.8 GSO 2500 “Additives Permitted for Use in Food Stuffs”.
- 2.9 GSO CAC 193 “General Standard for contaminants & toxins in food”.
- 2.10 GSO 707 “Flavourings Permitted for Use in Foodstuffs”.
- 2.10 GSO 839 “Food Packages - Part 1: General Requirements”.
- 2.12 GSO Standard No..... for " Maximum limits for ethyl alcohol residues in food " which will be adopted by GSO.

### 3- DEFINITIONS:

#### 3.1 Malt Beverage:

The beverage intended for direct human consumption prepared, by suitable methods, from the extract of malt and hop (*Humulus lupulus*) infusion or from ready concentrations of the extract of malt infusion and followed by pasteurization for destruction of

capable of growing and addition of flavours.

#### 3.2 Malt:

Is prepared by wetting barley grains [*Hordeum sativum*, *Hordeum vulgare* or *Hordeum distichum*] with water and left at suitable conditions for sprouting then the sprout grains are dried.

**4- REQUIREMENTS:**

- 4.1 Malt beverage shall be produced according to the hygienic regulations mentioned in item 2.2.
- 4.2 The water used in the production shall be potable complying with GSO standard mentioned in item 2.3.
- 4.3 Malt beverage shall met the following:
  - 4.3.1 It shall be clear free from suspended materials and sediments.
  - 4.3.2 It shall have the colour, taste, odour and foam characterizing the malt beverage.
  - 4.3.3 Bitterness degree shall be ranged between 14 and 22 bitterness unit.
  - 4.3.4 The pH shall be 4.2-4.8.
  - 4.3.5 Carbon dioxide content shall not be less than 2.5 g/kg in carbonated malt beverage.
  - 4.3.6 Total acidity shall not exceed 0.29% as lactic acid.
  - 4.3.7 Total solids shall not be less than 3.8% by mass.
- 4.4 Microbiological criteria in the product shall not exceed the maximum levels mentioned in item in (2.5).
- 4.5 The contaminants metallic elements shall not exceed the maximum levels mentioned in item (2.9).
- 4.6 The use of food additives in malt beverage is allowed in accordance with the gulf standard mentioned in item (2.8).
- 4.7 The use of flavors is allowed in accordance with the gulf standard mentioned in item (2.10).
- 4.8 The maximum limit for ethyl alcohol in malt beverage shall not exceed the limits mentioned in item (2.12), in accordance with the gulf standard which will be adopted by the authority.

**5- PACKAGING, STORAGE AND TRANSPORTATION:**

- 5.1 Packaging

Malt beverage shall be packed in clean, hygienic, suitable, hermetically sealed containers, and shall not cause any change in the product's properties. Packegs shall be complied with GSO standard mentioned in item 2.11.
- 5.2 Storage

The product shall be stored in well-ventilated stores far away from sources of heat, moisture and contamination.
- 5.3 Transportation

Transportation and handling of the product shall be carried out in a correct manner to protect containers from mechanical damage, contamination, high temperature and moisture.

**6- LABELLING:**

Without prejudice to what has been stated in the GSO standard mentioned in item 2.1, the statement “Free from alcohol” or “Non-alcohol” shall be declared on the label of each container also “carbonated” if contained CO<sub>2</sub> of the amount specified in item 4.3.5.

**Reference**

- EGYPTIAN STANDARD FOR NON ALCHOLIC BERLEY DRINK ES: 1765/2016.