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GCC STANDARDIZATION ORGANIZATION (GSO)

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مركّزات المشروبات الغازية
Concentrates for carbonated beverages

Prepared by :
Gulf technical committee for standards of food and agriculture products

This document is a draft Gulf standard circulated for comments, it is therefore, subject to change, and may not be referred to it as a Gulf standard, until approved by the board of directors

ICS : 67.160.20

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" Concentrates for carbonated beverages “ the draft standard has been prepared by the state of Qatar. The draft standard has been prepared based on relevant ADMO, International and national foreign standards and references.

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

Concentrates for carbonated beverages

1. SCOPE

This standard is concerned with the basic requirements of the concentrates that are used in the manufacture of soft drinks.

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 150- 2 “Expiration dates for food products – Part 2 : Voluntary expiration dates”.
- 2.4 GSO 168 “Requirements of Storage Facilities for Dry and Canned Foodstuff”.
- 2.5 GSO 707 “Flavorings Permitted for Use in Foodstuff”.
- 2.6 GSO 839 “General Regulations for Food Containers”.
- 2.7 GSO 1409 “Non-Alcoholic Carbonated Beverages – Sampling”.
- 2.8 GSO 1410 “Non-Alcoholic Carbonated Beverages – Determination of Arsenic and Lead Contents”.
- 2.9 GSO 1694 “General principles of food hygiene “.
- 2.10 GSO 2055-1 “ Halal food part (1) : General requirements “.
- 2.11 GSO ISO 4052 “COFFEE – determination of caffeine content (Reference methods) “.
- 2.12 GSO 1793 "The two pieces aluminum round cans used for canning food (Beverages & stuff).

3. DEFINITIONS

3.1 Concentrates for carbonated Beverage:

Are extracts or solutions or suspensions in water solution or a suitable solvent or mixtures of salts include all or some of the following components:

Flavors taste, smell, color, turbid, materials, preservatives and acids permitted in soft drinks to give them the taste, smell and color that required, emulsifying, and any other additives permitted materials.

4. REQUIREMENTS

- 4.1 The materials used in producing these concentrates shall be permitted food substances commensurate with the authorized limits in the final drink according to GSO standard requirements mentioned in Item (2.2)
- 4.2 The product shall confirm with the rolls listed in GSO mentioned in item (2.9).
- 4.3 In the case of imported concentrates it must be accompanied by a certificate

confirming its suitability for human consumption and the requirements mentioned in item (2.10) from the country of origin, not conflicting with the legislation issued in this regard.

- 4.4 The concentrations of heavy metals shall not exceed the limits mentioned in Gulf standard mentioned in Item (2.8).
- 4.5 The product shall be free of fungus and yeast cells.
- 4.6 The product shall be free of coliform bacteria and pathogenic microbes.
- 4.7 Total bacteria count should not exceed of 100 cells / ml.
- 4.8 Phosphoric acid content shall not exceed in the case of use of 700 mg / L estimated as the fifth phosphorus oxide in the final drink.
- 4.9 The percentage of caffeine shall not exceeding the equivalent of 200 mg /L in the final drink.
- 4.10 Concentrates shall be kept their natural, chemical and sensory properties and components shall not separated from each other throughout the storage period.
- 4.11 Concentrates shall be mixed very well in diabetes drink that used in the production of soft drinks and shall not separated from them while dilution unless in case of added juice or natural fruit pulp.
- 4.12 The product shall be stored away from heat and direct light.
- 4.13 Pass the sensory tests after preparing soft drink samples using dilution ratios.

5- SAMPLING:

Samples shall be taken according to GSO standard mentioned in Item (2. 7).

6- METHOD OF TESTS:

Test shall be carried out on the representative sample taken according to Item (5) to determine its compliance with the following testing methods:

- 6.1 Visual inspection, flavor, color and odor in accordance to GSO standard mentioned in Item (2.2).
- 6.2 Determination of Caffeine concentration accordance to GSO standard mentioned in Item (2.11).
- 6.3 Detection of heavy metals accordance to GSO standard mentioned in Item (2. 8).
- 6.4 Determination the concentration of artificial Sweeteners accordance to GSO standard mentioned in Item (2.5).

7- PACKAGING, TRANSPORTATION AND STORAGE:**7.1 Packaging:**

- 7.1.1 Without prejudice to provisions of GSO Standard mentioned in Items (2.6), (2.10) It must take into account the following requirements when filling soft drinks:
- 7.1.2 The product shall be packaged in containers which will safeguard the hygienic quality and integrity of the beverage.
- 7.1.3 The containers shall meet the requirements of Gulf Standard stated.
- 7.1.3 The concentrates be accompanied by a statement components and ratios mitigation or filing statement components

7.2 Transportation:

The packaged containers shall be transported in boxes made of plastic, wood, or any other material specifically to protect against breakage or damage during transportation and trading. The boxes shall not contaminated by any toxic, caustic or harmful materials.

7.3 Storage:

The filled containers shall be stored away from any toxic, potentially explosive or flammable material. The filled containers shall also be stored in an environment that minimizes high moisture and temperature and according to GSO standard mentioned in Item (2.4).

8- LABELING:

Without prejudice to provisions of GSO Standard mentioned in Item (2.1) and Item (2.3) and shall be declared on the label of the product.

- 8.1 Name, dress and trademark of the product
- 8.2 Item name or code number, if any.
- 8.3 lot number.
- 8.4 Date of production - expiry date or validity period.
- 8.5 Size or weight of the package contents.
- 8.6 Storage and handling requirements.
- 8.7 Importer's name, address and country of origin in the case of import.

Main Reference :

Egyptian standards

No. 1231 /2005

Concentrations for carbonated beverages