

هيئة التقييس لدول مجلس التعاون لدول الخليج العربية
GCC STANDARDIZATION ORGANIZATION (GSO)

Final draft

GSO 5/FDS 2138/2014

عبوات الشاي والأعشاب
Tea and herbs bags

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Tea and herbs bags

Date of GSO Board of Directors' Approval : //143 h (//201)
Issuing Status : Technical regulation

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 updated the Technical regulation GSO 2138 " Tea and herbs bags" . The Draft Technical regulation has been prepared by State of Qatar. The draft Technical regulation 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. (14), held on / /143 h (/ /201) , will replace and supersede GSO 2138: 2011.

Tea and herbs bags

1- Scope and field of application:

This Gulf Technical regulation is concerned with different types of tea bags (black-green- flavored) and with different herbs bags.

2- Complementary Standards:

- 2.1 GSO 9 "Labeling of prepackaged food stuffs " .
- 2.2 GSO 21 "Hygienic regulations for food plants and their personnel " .
- 2.3 GSO 150 "Expiration periods of food products –Part 2: Voluntary periods " .
- 2.4 GSO 186 "Conditions of storage facilities for dry and canned food stuffs " .
- 2.5 GSO 839 " Food packages- Part 1: General requirements " .
- 2.6 GSO 988 "Limits of radioactivity levels permitted in food stuffs- Part 1 " .
- 2.7 GSO 1016 "Microbiological criteria for food stuffs- Part 1 " .
- 2.8 GSO 1694 " General rules for food hygiene " .
- 2.9 GSO/ISO 168 "Paper and board- Sampling to determine average quality " .
- 2.10 GSO/ISO 12625-4, 5 "Tissue paper and tissue products- Determination of tensile strength".
- 2.11 GSO/ISO 534 "Paper and board- Determination of thickness, density and specific Volume".
- 2.12 GSO/ISO 15320 "Pulp, paper and board- Determination of pentachlorophenol In an aqueous extract " .
- 2.13 GSO/ISO 10775 "Paper, board and pulp- Determination of cadmium content- Atomic absorption spectrometric method " .
- 2.14 GSO/ISO11475 "Paper and board- Determination of whiteness " .
- 2.15 GSO/ISO 287 "Paper and board- Determination of moisture content " .
- 2.16 GSO (382,383) "Maximum limits for pesticide residues in agricultural and food products- Parts 1,2 " .
- 2.17 GSO/ISO 8784-1 " Pulp, paper and board- Microbiological examination- Part 1: Total count of bacteria, yeast and mould based on disintegration " .

3- Definitions:

- 3.1 Tea or herbs bag: Bag for essential function of containing of tea or herbs, and touched the product from inside.
- 3.2 Food grade matter: Permissible matter used in food for provided safety conditions in it.

3.3 Recycling bag: A bag processed from raw materials not previously used.

4- Requirements:

The following requirements shall be met in the product:

4.1 The packed products (tea or herbs) shall comply with Gulf standards specific to each.

4.2 The production shall be carried out in plants that comply with the requirements mentioned in Gulf standards in items (2.2, 2.8).

4.3 The bag shall be used one time only, and does make any harmful for the consumer when used.

4.4 Paper used in the processing of tea and herbs bags shall have the following characteristics:

4.4.1 It shall not transfer any contrary taste to the product taste or lead to contaminant the fusion produced from it.

4.4.2 It shall be produced from non-recycled materials.

4.4.3 It shall be free from any harmful materials for public health.

4.4.4 The maximum of emigration of cadmium, lead and mercury from the paper to the final products, shall not exceed the following (mg/Decimeters²):

Cadmium	0.002	Lead	0.003	Mercury	0.002
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4.4.5 Maximum content for emigrated pentachlorophenol from the paper to the product shall not exceed 0.15 mg/ kg paper.

4.4.6 Moisture content of the paper shall be in the range from 6 to 10 %.

4.4.7 Brightness of paper shall not be less than 60%.

4.4.8 Density of the paper shall range from 12.5- 20 g/m².

4.4.9 Dry tensile strength in cross direction of the paper shall not be less than 2.5 N/ 15 mm.

4.4.10 Dry tensile strength in machine direction of the paper shall not be less than 12 N/ 15 mm.

4.4.11 Wet tensile strength in cross direction of the paper shall not be less than 0.8 N/ 15 mm.

- 4.4.12 Wet tensile strength in machine direction of the paper shall not be less than 1.2 N/15 mm.
- 4.4.13 The characteristics of the paper shall permit soluble solids of the product to penetrate it when put the bag in the hot water.
- 4.5 Tea and herbs bags shall be closed after packing with the product with pressing or thermo pressing process or with cotton threads or with metallic staples safety for contact foods.
- 4.6 The process of closing the bags after packing is done well, so as not to permit loss of any packed product.
- 4.7 The threads used either for closing the bags or for connecting between packed bags and paper tag shall be safety for contact foods..
- 4.8 Pesticide residues in used cotton threads (in case of used) shall not exceed the limit mentioned in Gulf Standard stated in Item (2.16).
- 4.9 Thread, metallic clips or glue can be used for fixing the tag and used for fixing the thread with the tag.
- 4.10 Microbiological criteria for the product shall be complying with the Gulf Standard stated in Item (2.7).
- 4.11 Radioactivity limits for the product shall be complying with the Gulf Standard stated in Item (2.6).

5- Sampling:

Samples shall be taken according to Gulf Standard stated in Item (2.9).

6- Methods of examination and test:

The following tests shall be carried out on the sample taken according to Item (5) to determine its compliance for the items of this standard:

6.1 Determination of moisture:

Determination of moisture shall be carried out according to Gulf Standard stated in Item (2.15) .

6.2 Determination of dry and wet tensile strength:

Determination of dry and wet tensile strength shall be carried out according to Gulf Standard stated in Item (2.10) .

6.3 Determination of paper density:

Determination of paper density shall be carried out according to Gulf Standard Stated in Item (2.11) .

6.4 Determination of paper brightness:

Determination of paper brightness shall be carried out according to Gulf Standard stated in Item (2.14).

6.5 Determination of pentachlorophenol:

Determination of pentachlorophenol shall be carried out according to Gulf Standard stated in Item (2.12).

6.6 Determination of metallic elements:

Determination of metallic elements shall be carried out according to Gulf Standard Stated in Item (2.13).

6.7 Determination of microbiological requirements:

Determination of microbiological requirements for packaging paper shall be carried out according to Gulf Standard stated in Item (2.17).

7- Packaging, transportation and storage:**7.1 Packaging:**

7.1.1 Tea or herbs bags shall be packed in containers made of food grade firm paper and safety in food contact to protect it from damage and spoilage .

7.1.2 The bags used in packaging tea and herbs bags shall be clean and not allow, with any probability, of contaminant of packed matter.

7.1.3 Using bags shall kept of packed product characteristics, and keep it from Earning any off odor or flavors .

7.1.4 Using bags shall provided the protection for the packed product from Contaminant with microorganisms, insects and rodents .

7.1.5 Tea or herbs bags may be packed in single paper bags, well closed with pressing, thermo pressing or with metallic staples so these paper bags shall be packed in food grade containers .

7.2 Transportation and storage:

7.2.1 Transportation and storage of the product shall be carried out in such a way not lead to spoil or damage of the product

7.2.2 Transportation and storage of the product shall be carried out in such a way to avoid influence of any odor and chemical materials, and in a stores complying with Gulf Standard stated in Item (2.4).

8- Labeling:

Without prejudice to what mentioned in Gulf Standard stated in Items (2.1), (2.3) the following shall be declared on the label of tea or herbs:

8.1 Number of tea or herbs bags in each container,

8.2 Net weight for each bag,

8.3 Product name and its trade mark.

