INTERNATIONAL STANDARD

ISO 4708

Third edition
2015-09-15

Composition cork — Gasket material — Test methods

Agglomeré composé de liège — Joints pour industries mécaniques — Méthodes d'essai

Reference number
ISO 4708:2015(E)

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
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Foreword

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 87, *Cork*.

This third edition cancels and replaces the second edition (ISO 4708:2000). The major amendments are technical changes introduced in Clause 4, Clause 5 and Annex A.

Composition cork — Gasket material — Test methods

1 Scope

This International Standard specifies test methods to determine the characteristics of agglomerated composition cork and rubbercork to be used as gaskets in the mechanical industry. The following characteristics are considered:

— thickness,

— apparent density,

— tensile strength,

— compressibility and recovery,

— flexibility,

— resistance to boiling water,

— behaviour in fluids.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 633, *Cork — Vocabulary*

ISO 2859-1, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

ISO 7322:2014, *Composition cork — Test methods*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 633 and the following apply.

3.1
composition cork
product obtained from the agglutination of cork granules with the addition of a binder generally not derived from cork wood cells

3.2
rubbercork
product manufactured as a compound of cork granules and rubber, which can be used either in the form of granules or as a binder

3.3
failure
appearance of any crack, break or surface separation

3.4
disaggregation
substantial loss of particles and/or splitting open of a test specimen during the test

4 Apparatus

Material specified in ISO 7322, and the following.

4.1 Series of mandrels, with diameters ranging from 8 mm to 25 mm, in steps of 1 mm.

4.2 Air circulation oven, capable of being maintained at (100 ± 2) °C.

4.3 Open containers.

4.4 Oven or **climatic room**, capable of being maintained at (23 ± 5) °C and (50 ± 5) % relative humidity.

4.5 Absorbent paper, of analysis type.[1)]

4.6 Aluminium foil.

4.7 Cutting system, to cut the test specimens.

5 Reagents

See Annex A.

5.1 ASTM IRM 903 oil.[2)]

5.2 ASTM IRM 901 oil.[2)]

5.3 ASTM Fuel A.[2)]

6 Sampling and preparation of test specimens

6.1 Sampling

The number of packages from each lot (at least three packages) and the quantity of material to be taken from the sample shall be in accordance with ISO 2859-1 for the inspection level agreed between the interested parties.

6.2 Preparation of the test specimens

6.2.1 From each sheet of material and using the cutting system (4.7), take test specimens at a distance of at least 100 mm from the edges. The number and dimensions of the test specimens shall be as specified in Table 1. Each test specimen shall be squarely cut with the edges perpendicular to its surface, and shall not show any cracks or folds.

6.2.2 The minimum and the maximum thicknesses of the test specimens for testing flexibility are specified in Table 2.

1) Paper Whatman No. 4 has demonstrated proper absorptive properties for oils. This is an example of a suitable product available commercially. This information is given for the convenience of users of this International Standard and should not be taken as an endorsement by ISO of this product.

2) These are examples of suitable reagents. Other reagents may be used provided that they comply with the requirements specified in Annex A.

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