International Standard

4709

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION MEXAYHAPOAHAR OPTAHU3AUUR TO CTAHAPTU3AUUMOORGANISATION INTERNATIONALE DE NORMALISATION

Cork — Composition cork gasket material — Specifications

Liège – Aggloméré composé pour joints pour industries mécaniques – Spécifications

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<u>ISO 4709:1985</u> https://standards.iteh.ai/catalog/standards/sist/2546ae59-5cc9-4efd-95e3-065cc19a6810/iso-4709-1985

Descriptors : cork, agglomerates, specifications, dimensional tolerances, designation, sampling, packing.

Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7386 was prepared by Technical Committee ISO/TC 87, Cork.

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Cork — Composition cork gasket material — Specifications

1 Scope

This International Standard specifies characteristics of composition cork material intended to be used as gaskets in mechanical industries.

5 Designation

The composition cork gasket material shall be identified by

 the type of bonding, using the symbol P for the protein glue and the symbol R for the resin glue;

2 Field of application **Teh STANDARD PREVIEW**

This International Standard applies to composition cork sheets. Site apparent density, using slabs or frames obtained by pressure with granulated cork protein or resin bonded, with or without rise of temperature. ISO 4709:1985 the symbol 22 for 220 kg/m³ $\leq \varrho < 270$ kg/m³ the symbol 22 for 220 kg/m³ $\leq \varrho < 270$ kg/m³

https://standards.iteh.ai/catalog/standards/sist/2546ae59-5cc9-4etd-95e3-065cc19a6810/iso-4709-1985the symbol 32 for 320 kg/m³ $\leq \rho < 380$ kg/m³

Examples :

3 References

ISO 2859, Sampling procedures and tables for inspection by attributes.

ISO 4708, Cork – Composition cork gasket material – Test methods.¹⁾

4 Thickness

The tolerances on nominal thickness of sheets, slabs or frames measured in accordance with ISO 4708 are

 \pm 0,13 mm on nominal thickness \leq 1 mm;

 \pm 0,25 mm on nominal thickness > 1 mm and \leq 3 mm;

 \pm 0,30 mm on nominal thickness > 3 mm and \leq 6 mm;

 \pm 5 % on nominal thickness > 6 mm and never more than 0,40 mm.

Tolerances may also be established by agreement between purchaser and supplier. the symbol 38 for

P 32 — sheets, slabs or frames of composition cork, having as binder a protein glue and apparent density 320 kg/m³ $\leq \rho < 380$ kg/m³;

 $\varrho \ge 380 \text{ kg/m}^3$

R 27 — sheets, slabs or frames of composition cork, having as binder a resin glue and apparent density 270 kg/m³ $\leq \rho < 320$ kg/m³.

6 Specifications

Sheets, slabs or frames for composition cork gasket material tested according to ISO 4708 shall have the specifications given in the table.

The same specifications shall apply to sheets or boards with bonded seams.

Specifications	Туре	Protein bond			Resin bond				
	Grade	P22	P27	P32	P38	R22	R27	R32	R38
Apparent density, kg/m ³ min.		220	270	320	380	220	270	320	380
Tensile strength, MP	a min.	0,40	0,55	0,70	0,85	0,40	0,55	0,70	0,85
Compressibility, %	min.	30 to 50	20 to 40	15 to 30	10 to 25	30 to 50	20 to 40	15 to 30	10 to 25
Recovery, %	min.	65	75	75	75	65	75	75	75
Dimensional change,	, % max.	2,5	2,5	2,5	2,5	1,5	1,5	1,5	1,5
Flexibility		There shall be no breakage ¹⁾							
Fluid resistance (water, oil and fuel)		There shall be no disintegration ²⁾							

Table - Specifications

7 Sampling

Take 1 % of sheets from each package with a minimum of 1 unit or 0.5 m^2 and according to ISO 2859.

Pallets may be used, provided that they are provided with the same protection.

The quantity, thickness and designation of the material shall be shown on the outside of each package and no package shall contain more than one thickness.

8 Packing

The material shall be packed in moisture-resistant packages DARD PREVIEW with a shape assuring transportation without deterioration.

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2) A test piece is said to disintegrate if it cracks open and/or if it shows substantial separation of particles during the test.

¹⁾ The absence of breakage shall imply no breakage throughout the granules of cork or separation of the granules.