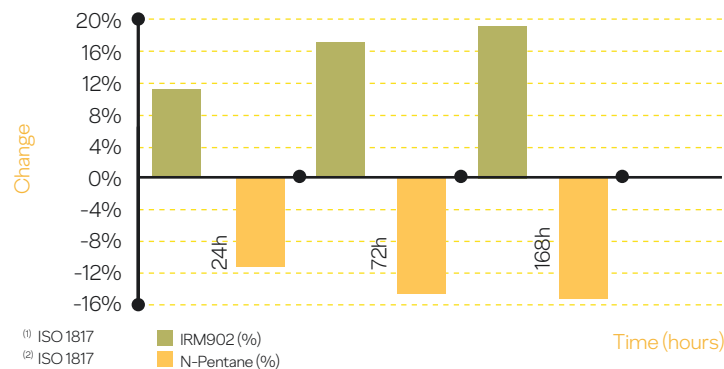


AMORIM TECH SEAL

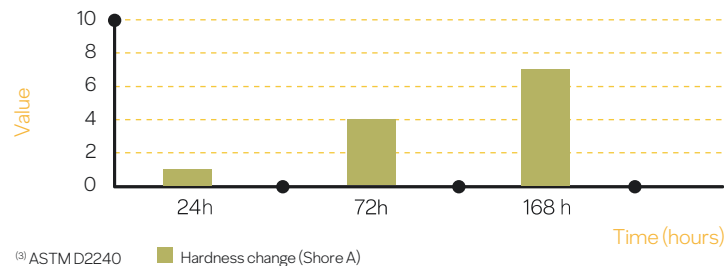
TS5500 (CR55R VCN49) Technical Datasheet

Material Description & Properties

Weight change @ 100°C ^(1&2)



Heat ageing data, air @ 100°C ⁽³⁾



TS 5500 low loading cork rubber material used for natural Gas and LPG applications, with good conformability to flange distortion

Temperature range	Up to 90°C (up to 190°F)
Stress range	1.5 to 8 MPa (218 to 1160 psi)
Compressive strength	exceeds 70 MPa (10000 psi)

TS 5500 conforms to all present regulations for hazardous substances.

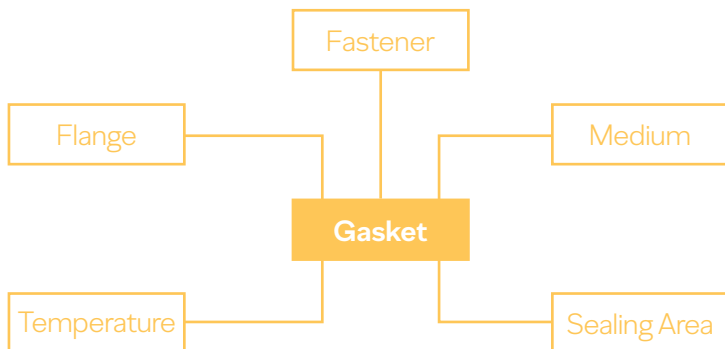
- Asbestos Free
- Heavy Metals (Pb, Cd, Hg and Cr (VI)) Free
- Polycyclic Aromatic Hydrocarbons (PAH) Free

Density (kg/m ³) ⁽¹⁾	560-800
Hardness (shore A) ⁽²⁾	55-70
Tensile strength (MPa) ⁽³⁾	> 1.03
Compressibility at 400 psi (%) ⁽⁴⁾	30-50

- ⁽¹⁾ ASTM F1315
⁽²⁾ ASTM D2240
⁽³⁾ ASTM F152
⁽⁴⁾ ASTM F36

Fluid contact

Natural Gas	Suitable
Liquid Petroleum Gas	Suitable



Design Guidelines

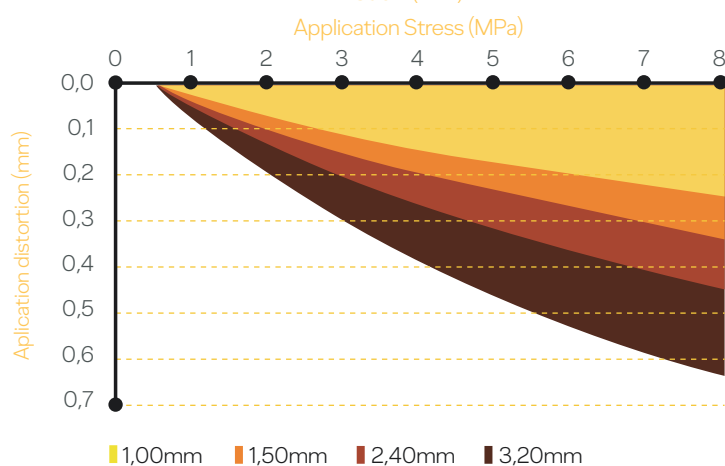
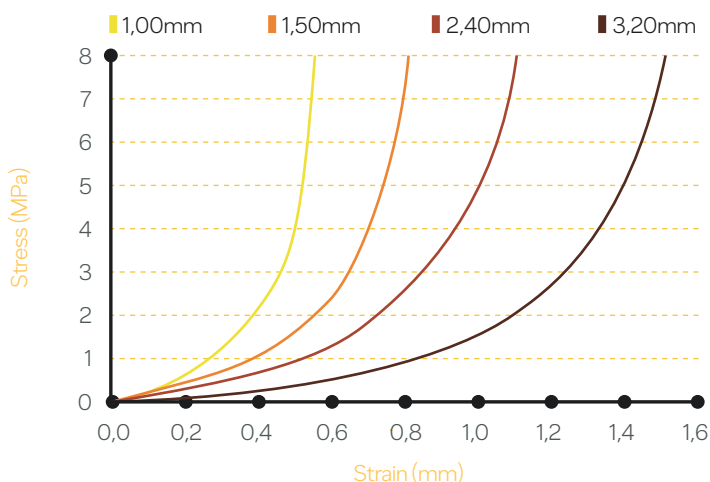
A Gasket material compatibility is defined by a variety of application factors shown in the adjacent diagram. The common perception that temperature and chemical resistance must be assured are only part of the equation.

Amorim Cork Composites' systems approach ensures joint integrity by considering the multiple variables that are involved.

Sealing Stress and System Distortion are key characteristics that influence each other. Sealing Stress is defined by the total fastener load for a given gasket contact area.

System Distortion is a function of the hardware manufacturing process and assembly procedure or loading.

The selection of the gasket thickness depends on these two factors.



Sealing stress

A Load Deflection (LD) curve is a Stress (MPa) vs. Strain (mm) curve. It is the load required to compress a material at a defined thickness a determined deflection.

It is very useful when making material selections to meet engineering requirements such as flange load or controlled compression applications.

If you require LD data at a different thickness, just ask us.

System distortion

Conformability is the ability of a gasket material to conform to flange surface roughness and out-of-flatness.

At a given sealing stress a corresponding maximum allowable flange distortion assures that a "positive seal" is guaranteed for a defined material thickness.

Intersecting the hardware distortion and the respective sealing stress, a suggested material thickness is selected. However it is always recommended to validate the material thickness in your system due to unexpected flange distortion behavior.

The data provided in this Material Data Sheet represents typical values. This information is not intended to be used as a purchasing specification and does not imply suitability for use in a specific application. Failure to select the proper sealing product may result in either product damage or personal injury. Please contact Amorim Cork Solutions regarding recommendations for specific applications. Amorim Cork Solutions expressly disclaims all warranties, including any implied warranties or merchantability or of fitness for a particular purpose. Amorim Cork Solutions is not liable for any indirect, special, incidental, consequential, or punitive damages as a result of using the information listed in this material data sheet, any of its brochures, its products or any future use or re-use of them by any person or entity. For contractual purposes, please request our Product Specifications Sheet (PDA).

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