

MATERIAL DESCRIPTION PROPERTI

TD1120 sealing material is compounded with a special Nitrile (NBR) rubber.

This product is suitable for most transformer oils and hig distortion flanges at application temperatures.

- Temperature range-40°C
- Stress range...... 2.5 to 15 MPa

(360 to

Compressive Strengtkceeds 70 MPa (10000 psi)

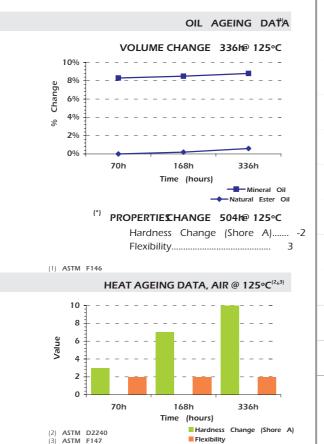
TD1120 conforms to all present regulations for hazardous substances.

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

Density (kg/m²)	850
Hardness (Shore A)	65
Tensile Strength (MP3)	2,0
Elongation (%)	90
(1) ASTM D297 (2) ASTM D2240 (3) ASTM D412, Die C	

TD1120 is suited for Mineral and Silicone oil according to: ASTM D3455 - Test Methods for Compatibility of Construction Materials with Electrical Insulating Oil of Petroleum origin. ASTM D5282 - Test Methods for Compatibility of Construction Materials with Silicone Fluid used for Electrical Insulation.

/lineral Oil	Suitable
nineral Oil	Sultable
latural Ester Oil	Suitable
ilicone Oil	Suitable
F ₆ Gas	Acceptable



Flexibility





GASKET

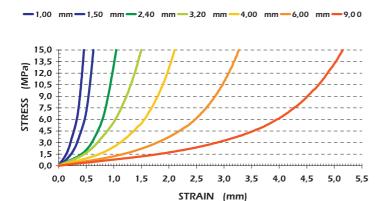
FASTENER

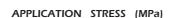


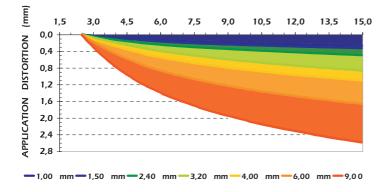
Gasket Design Guidelines

A Gasket material suitability 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 loading for a given gasket contact area. System Distortion is a function of the hardware manufacturing process assembly procedure or loading. The selection of the gasket thickness depends these two factors.







Sealing Stress

A Load Deflection (LD) curve is a Stress (MPa) vs. Strain (mm) curve is the load required to compress a material at a defined thickness 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 alway recommended to validate the material thickness in your system due to unexpected flange distortion behavior.

Check our "Q-Tool" sealing software on our website for a quick and comprehensive calculation system, or contact us for additional help to define our best material solution for your sealing require

The data provided in this brochure represents typical values. This information is not intended to be used as a purchasing specification and does not imply suitability for use in a select the proper sealing product may result in either engine damage or personal injury. Please contact Amorim Cork Composites regarding specific application recommendations. Amorim cork composites regarding specific application recommendations. Amorim cork composites is not liable for any indiconsequential, or punitive damages as a result of using the information listed in this brochure, any of its material specification sheets, its products or any future use or re-use of the

