

**Amorim T&D** 

TD1120

**Material Data Sheet** 

## **MATERIAL DESCRIPTION & PROPERTIES**

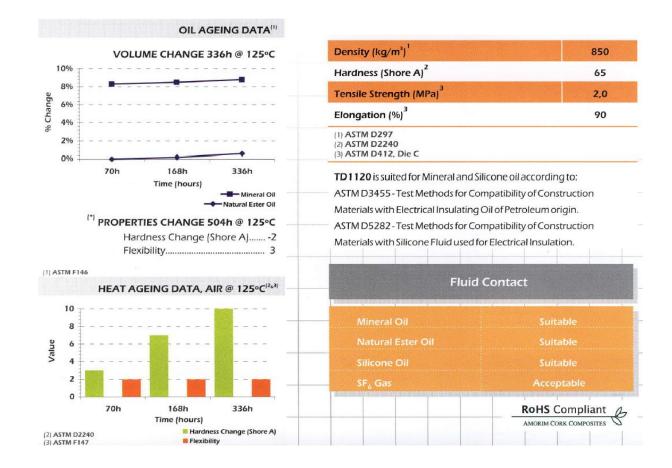
**TD1120** sealing material is compounded with a special Nitrile (NBR) rubber.

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

- Temperature range ...... -40°C to 125°C
  - (-40° F to 257°F)
- **Stress range** ...... 2.5 to 15 MPa
  - (360 to 2175 psi)
- Compressive Strength ... exceeds 70 MPa (10000 psi)

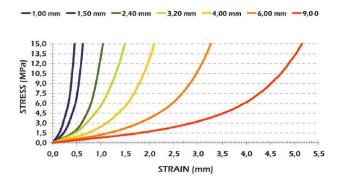
**TD1120** conforms to all present regulations for hazardous substances.

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









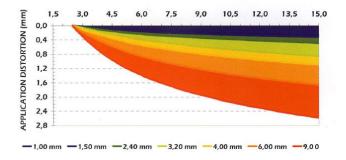
## Sealing Stress

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.