TB1206D

Modified – Silicone Liquid Gasket

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Product Description:

The **Three Bond 1206D** is a single-component, solvent free and non-acid liquid gasket based on modified silicone with low odour emission. It has been developed as a direct replacement for the **TB1208 Series** modified silicone sealants, which contain phthalate plasticizers. Within a very short time it forms a rubber-like high elastic gasket completely adapted to the surface structure of the flange faces. **TB1206D** has been designed specifically as a liquid gasket for flange surfaces which must resist extreme vibrations, e.g. transmission case for tractor etc. Being of modified silicone nature it has excellent adhesion to painted surfaces and can also be over-painted.

Product Benefits:

- Does not contain phthalate plasticizers
- Excellent chemical resistance against engine oil
- Outstanding mechanical resistance
- Excellent adhesion even to slightly contaminated surfaces
- Extremely fast curing
- Over paintable
- Acceleration of the curing process by heat and contact with the medium
- No shrinkage and no generation of corrosive gases
- No corrosion of metal and only very slight reaction on plastics
- Normal disassembly

Product Information

Physical Properties

Colour	Grey
SOD-Viscosity @ 25℃ (Pa.s)	80
Density @ 25℃ (g/cm ^{2})	1.46
Touch-proved desiccation* (min)	5
Curing rate (mm/day)	2.1
Hardness Shore A	41
Elongation (%)	470
Tensile strength (MPa)	2.2
Shear strength Al/Al (MPa)	2.3
Effective temperature range (℃)	-40 ~ 120
Shelf life @ 25℃ (months)	6

* First skin over time to tack-free time

Performance Properties

Properties		Result
Heat resistance (120℃ x 240h)	Shore Hardness A	29
	Elongation (%)	560
	Tensile strength (MPa)	1.8
	Shear strength Al/Al (MPa)	2.1
Engine Oil (120℃ x 240h) **	Shore Hardness A	23
	Elongation (%)	310
	Tensile strength (MPa)	1.4
	Shear strength Al/Al (MPa)	1.7

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**5W-20 SL engine Oil

Initial Pressure Resistance – Blow Out Test

Clearance	Result	Unit	Test Method
0.2 mm	140	kPa	*1 (after 30 minutes)

*1 Test Method: Flange: Al width 15mm i.d. 60mm; Pressurised at 10kPa and held for 15 seconds; Environmental Condition: 25℃ x 55% R H

Handling and Precautions

Instructions

- Keep the original container tightly closed and store it in a dark, dry, sufficiently ventilated and cool place at a temperature of 5~25℃.
- Before opening the container let the product reach room temperature as otherwise the formation of dew may result.
- The formation of skin and the thickness hardenability of silicone varies depending upon the thickness of the layer, the ambient temperature and the relative humidity.
- In order to obtain optimal results, remove grease, dirt and other impurities from the fitting surfaces.
- According to the nature of the joints (width, surface roughness, unevennesses) apply an appropriate quantity of silicone uniformly on one of the fitting surfaces and assemble the parts within 5 minutes.
- Silicone once transferred into another container should not be returned to the original container. Excess sealant can be easily wiped off with a cloth.

Health and Safety:

Material Safety Data Sheets available on request.