



TB1121

Liquid Gasket

Non Solvent Type. Easy Detachment of Joined Surfaces

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Product Description:

Three Bond 1121 is a non-drying liquid gasket on the basis of denatured ester resin developed and patented from the viewpoints of user safety and easy detachment of joined surfaces. **TB1121** is applied on one of the fitting surfaces and can be assembled immediately after application. After assembly of the parts it is completely adapted to the surface structure of the fitting faces. All small indentations, such as tool marks and scratches, are filled in as well as any unevenness of the fitting surface. It exhibits exceptional sealing effect without becoming thin due to solvent evaporation. Joined surfaces are easy to separate, resulting in enhanced working efficiency during disassembly.

Product Benefits:

- Entirely free from organic solvents
- Non flammable therefore does not require special storage or transport
- Easy separation of joined surfaces as the product is not solidified by heat
- Does not erode rubber and plastics and can be used together with solid gaskets if necessary
- Excellent chemical resistance, especially to gasoline
- Virtually odourless

Typical Applications:

- Various flange joints and threaded parts
- Particularly suitable for joined surfaces which require repeated separation or have large coating areas
- Ship hatch covers
- Flange joints on compressors
- Engine covers
- Machinery inspection covers
- Drain cocks etc.

Product Information

Physical Properties

Properties	Result
Main component	Modified ester resin
Colour	Grey
Viscosity @ 25℃ (Pa.s)	300
Density @ 25°C (g/cm ²)	1.45
Residue after heating (%)	100
Condition after curing	Non-drying/non-elastic
Disassembly	Easy
Effective temperature range (\mathfrak{C})	-40 ~ 130
Shelf life @ 25℃ (months)	24

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Performance

Properties	Result (MPa)
Pressure Resistance	
@ 25°C	8.8
2 08 @	6.9
@ 150℃	6.4
30 cycles (-40℃ x 2h/100℃ x 2h)	6.9
Test Conditions: • Surface finish: 6.3S	Hydraulic medium: Turbine Oil

• Surface pressure: 15.7MPa

Tightening: 27.5 N.m

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- Applied flange: 90mm OD, 60mm ID, 15mm width
- Tightening: 27.5 N.m Flange material: JIS G 3101, Type 2 • Rate of pressure increase: 0.5Mpa per minute

Properties	Result (Weight -%)
Chemical Resistance	
Engine oil (100℃ x 24h)	+1.7
Gasoline (50°C x 24h)	-4.4
Water (95℃ x 24h)	-5.5

Test Conditions:

SS41

Initial curing: 24 hours + 100℃ x 3 hours

- Immersion: 24 hours
- Post drying: 65℃ x 24 hours

Handling

Instructions

- Thoroughly remove moisture, grease, dirt and other impurities from the surfaces to be • joined.
- Apply as thinly and uniformly as possible. .
- Joining is possible immediately after application

Storage

Keep TB1121 in its original container in a dark, dry, sufficiently ventilated cool place (5~25°C), ensuring the container is tightly closed.

Health and Safety:

Material Safety Data Sheets available on request.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the users responsibility to satisfy themselves as to the suitability of such information for their particular use.

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