

## Three Bond 1105

### Liquid Gasket

The product Three Bond 1105 is a single-component liquid gasket on the basis of synthetic rubber developed and patented by ThreeBond as all round liquid gasket for joints where extreme vibration is encountered. Three Bond 1105 is to be applied in viscous condition on one of the fitting surfaces at room temperature and forms a peelable dry, elastic gasket within a very short time. After the assembly of the parts it is completely adapted to the surface structure of the fitting surface. All micro-sized roughnesses, such as tool marks and scratches, are filled in as well as macro-sized unevennesses (waviness of the fitting surface) and thus guarantee absolute conformity. Due to the highly resistant chemical properties and the good cohesion moreover a high solidity is obtained inside the liquid gasket.

Available in black or silver (TB1105B).

#### 1. Features

- Excellent dispensing and application, as Three Bond 1105 is a one-component gasket with good thixotropic properties.
- The curing process can be accelerated by heat treatment.
- The elastic rubber-like liquid gasket excels in excellent impact and vibration resistance.
- Excellent pressure resistance even at extreme temperature.
- Excellent chemical resistance.
- If required, the product can be used in combination with solid gaskets.
- The dilution with solvents such as ethyl acetate and MEK is possible without any problems.

#### 2. Properties

Properties	Result	Unit
Main component	Synthetic rubber	
Colour	Black or Silver	
Viscosity at 25°C	3.5	Pa·s
Density at 25°C	0.92	g/cm <sup>3</sup>
Nonvolatile content	26	%
Condition after curing	Peelable dry film	
Surface condition after application	Non-tacky	
Elasticity	Elastic	
Disassembly	Good	
Coating area (0.1mm thickness)	92	g/m <sup>2</sup>
Effective temperature range	- 40 ~ 150	°C
Shelf life at 25°C	24	months

### 3. Performance

Properties	Result	Unit
<b>Pressure Resistance</b>		
at 25°C	8.5	MPa
at 80°C	6.5	MPa
at 150°C	5.5	MPa
30 cycles (-40°C x 2h / 100°C x 2 h)	5.5	MPa
<b>Chemical Resistance</b>		
Engine oil (100°C x 24h)	+ 6.9	Weight-%
Gear oil (100°C x 24 h)	+ 7.4	Weight-%
Gasoline (50°C x 24 h)	- 5.2	Weight-%
Water (95°C x 24 h)	+ 0.3	Weight-%

### 4. 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°C.
- Before opening the container let the product reach room temperature as otherwise the formation of moisture may result.
- In order to obtain optimal results, remove grease, dirt and other impurities from the fitting surface.
- According to the nature of the joints (width, surface roughness, unevennesses) apply an appropriate quantity of the liquid gasket uniformly on one of the fitting surfaces and assemble the parts within 15 minutes.
- If the liquid gasket will be applied by means of our OLGS (On Line Gasket System), this always permits, even in case of complicated shapes, a uniform, clean and reliable dispensing with a minimum consumption.
- The product once transferred into another container should not be returned to the original container. Excess material can be easily wiped off with a cloth.

### 5. Packing

150g tubes and 1 kg cans (Special packing on request)

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