

# ThreeBond 1101

## Liquid Gasket

ThreeBond **1101** is a one component liquid gasket developed for sealing applications by preventing leakage of oils, water and gases under pressure at joining surfaces; it provides excellent resistance to contact fluids, shock and vibration. By maintaining its functionality over a wide range of temperatures and for an extended period of time it can improve the performance of equipment, extend the functional life and reduce the total cost.

### 1. Features

- Fatty acid modified phenolic resin
- One component solvent free resin
- Non-drying type
- Service temperature : -40 / +150°C
- Joint surface and frequently dismantled applications

### 2. Properties

#### Before curing

Test	Results	Units
Colour	Brown	-
Viscosity at 25°C	1 000	Pa.s
Specific gravity at 25°C	1.42	-
Residue after heating	99.5	%
Solvent	None	-

#### Chemical resistance

Rubber kind	Mass change	Units
Water	- 4.5	wt %
Oil	- 3.5	
Gasoline	- 36.4	

#### Chemical resistance

Tests were conducted in accordance with specifications JIS-K-6820. A glass pane with a recess filled with a layer of sealant was left at room temperature for 24 hours and then dried at 100°C for 3 hours. Then parts were immersed in chemicals for 24h and after dried at 65°C for 24h before measuring the mass change at room temperature.

#### Pressure resistance

Conditions	Results	Units
At room temperature	70	MPa
At 80°C	35	
At 150°C	5	
After -40°Cx2h + 100°Cx3h	35	

### 3. Handling

- Before use, please refer to the safety data sheet.
- Flammable product. Do not expose to heat source.
- Prior to opening the container, let it reach room temperature to avoid condensation inside.
- To obtain optimal results, remove humidity, grease and other impurities from the surfaces to be assembled.
- Depending on the materials (dimensions and surface roughness), apply an appropriate and uniform amount of liquid gasket on the surface, then assemble rapidly.
- The product once transferred into another container should not be returned to the original one. Any excess product should be wiped out using a cloth.
- Keep the product in its original container, tightly sealed and store it in a dark, dry and well ventilated place at **-5 ~ 40°C**.