

TECHNICAL DATA SHEET

My-T-Bond® 1314

Liquid Gasket

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METLOK PRIVATE LIMITED
(An ISO 9001 Certified Company)
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Product Description

My-T-Bond® 1314 is a liquid gasket (Grey) adhesive with easy application. It adheres to many rough surfaces, fill all gaps and holes. It does not cause deterioration to metal surface by forming rubber like elastic material. It prevents leakages and enhances seal property and extends product life.

Product Benefits

- ❖ Slow drying viscous paste on evaporation of solvent
- ❖ Medium to long open time
- ❖ Rubbery and highly resistance to heat, oil and a variety of chemicals.
- ❖ Excellent sealing
- ❖ Prevent leakages from threaded fasteners

Product Applications:

Typical applications include sealing gaskets, flanges and threaded connections, aircraft heating systems, manifolds, pipe fittings, steam lines, gear boxes and cover plates.

Other uses

- ❖ Sealing Oil pan joined flange surfaces
- ❖ Used for sealing Oil filters fitting surfaces, transmission joined flanges surfaces.
- ❖ Ideal for water inlet and out let joined flange surfaces applications
- ❖ Oil pump joined flange surfaces.
- ❖ For sealing cylinder head joined flange surfaces.
- ❖ For filling gaps and holes in joined flange surfaces.

Properties

Technology	: Liquid Gasket
Chemical type	: Synthetic Rubber
Appearance	: Grey Liquid
Specific Gravity @ 25±2 °C	: 1.1
Viscosity, Brookfield	: 2000 to 5000 cP
Spindle no. 3, Speed 20 r.p.m.	
Non-Volatile Matter	: 46 ± 2 %
State after application	: Semi-drying

Sealing / Pressure Resistance

(I) Sealing performance Test / Pressure-Resistance Test:

The pressure resistance test for the liquid gasket is carried out in accordance with ASTM D 395.

Pressure Resistance

Room Temperature after 24 hrs	:	≥ 100 bar
Room Temperature after 1 hrs	:	≥ 100 bar
At 80 °C after ½ hrs	:	≥ 100 bar
At 80 °C after 1 hrs	:	> 100 bar

(II) Cool –heat cycle test:

The Sealing / pressure resistance test after cool –heat cycle was performed in accordance with ASTM D 395.

Cool–heat cycle : Flanges were subjected to 45 ±5 °C for two hours, followed by backing at 100±5 °C for 3 hours and thereafter allowed to cool to room temperature

Working Pressure : > 100 bar
Resistance after cool –heat cycle

Oil Resistance Test

The Oil resistance test was performed in accordance with ASTM D 395.

Oil Resistance

Engine Oil	:	Excellent
Gear Oil	:	Excellent

Water resistance Test

The water resistance test was performed in accordance with ASTM D 395.

Water resistance : Good

Corrosiveness Test

The liquid gasket adhesive sample was coated over the entire polished surface of a copper plate (25 mm square ; 3 mm thick) the sample was dried at room temperature for 24 hours . Then sample was removed with suitable solvent (toluene/ acetone / xylene /etc.) and surface was inspected for pitching or etching.

Etching / pitching : No
Corrosiveness : No

Direction for use

1. All surfaces should be clean and free of contaminants. If necessary, clean surfaces with solvent.
2. Apply the adhesive to the surface to be bonded.
3. Apply manually as a continuous bead to one surface of the flanges.
4. Low pressures may be used when testing to confirm a complete seal immediately after assembly and before curing.
5. Flanges should be assembled and tightened as soon as possible after assembly to keep away from shimming.
6. Clean excess adhesive
7. If using a large amount of this product or using for long time, it is compulsory to ventilate the area well.
8. If necessary use mask, non-permeable gloves, protective glasses.
9. Product may settle upon storage , stir well or shake the product thoroughly before use
10. To prevent the product from clogging in the nozzle, do not keep the tip open during application.
11. Do not move or adjust surfaces after contact has been made, as inferior sealing strength will result.

Storage and Handling

1. Store Product My-T-Bond® 1314 in a cool, dry location in unopened containers at 25±2°C.
2. Store away from sunlight and heat sources.
3. My-T-Bond® 1314 will exhibit a shelf life of six months from the date of manufacture when stored in above mentioned conditions.
4. To prevent contamination of unused product, do not return any material to its original container. For further specific shelf life information, contact our Technical Service center R&D Center

Pack Size

My-T-Bond® 1314 is ideally available in 500 gm pack size.

Note

All statements, technical information and recommendations set forth herein are based on tests which Metlok Private Limited, believes to be reliable. However, Metlok Private Limited does not guarantee their accuracy or completeness. The buyer should conduct its own tests of this product before use to determine proper preparation technique and suitability for proposed application. Any sales of this product shall be on terms and conditions set forth on Metlok Private Limited order acknowledgment. Metlok Private Limited warrants that the product conforms to Metlok Private Limited written specifications, and is free from defects. Metlok Private Limited Disclaims all other warranties, Expressed or implied, including the warranties of merchantability and fitness for a particular purpose. The buyer's sole remedy for noncompliance with this warranty shall be for the Replacement of the product or refund of the buyer's purchase price. In no case will Metlok Private Limited be liable for direct, consequential economic or other damages.

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