ThreeBond Europe S.A.S.
BP 39105
95073 Cergy-Pontoise Cedex
Tel : +33 (0)1 34 32 39 60
Fax : +33 (0)1 34 32 39 61

TB 1109J

TECHNICAL DATA

ThreeBond 1109J

Liquid Gasket

Today sealing compounds are widely used around us. They are made up of a variety of materials such as rubber, metal colloid, polyethylene and silicone. The heat resistance is generally less than 150℃ and even silicone based compounds that have the best heat resistance is about 180℃.

The best sealing compound for temperatures over 200℃ has been asbestos. However, asbestos is harmful therefore we have developed a sealing compound containing no asbestos. **Three Bond 1109J** is a non-asbestos high temperature sealing compound. It has excellent sealing compound with heat resistance up to 400℃.

Features

1. Homogeneously dispersible even after long-term storage without solidification.
2. Safe to use contains no asbestos.
3. Withstands high temperature of up to 400℃.
4. Meets organic solvent regulation guidelines. Contains no dangerous materials.

Application

Seals automobile mufflers and other high temperature connecting parts.

Chemical Test

Tests were conducted in accordance to JIS-K-6820 specifications. A glass panel with a recess filled with a coat of fluid sealant was air-dried for 24 hours, and then backed at 100 ± 5°C for 3 hours. Next, the panel was placed in a desiccator and allowed to cool to room temperature. Then the test piece was weighted and used in the following tests.

ThreeBond Europe S.A.S.
BP 39105
95073 Cergy-Pontoise Cedex
Tel : +33 (0)1 34 32 39 60
Fax : +33 (0)1 34 32 39 61

(1) Water Resistance Test

The test piece was immersed in 90 - 95°C water using distillation device with a recycle tower attached. It was then washed with methyl alcohol and dried at 65 ± 5°C for 24 hours, and thereafter cooled to room temperature. The test piece was checked for change in weight.

(2) Oil resistance Test

The test piece was immersed in 95- 100°C rubber lubricant No.2 for 24 hours & subject to testing procedures as described in the water resistance test.

(3) Gasoline Resistance Test

The test piece was immersed in 45 - 50°C automobile gasoline No.1 for 24 hours. Then it was subjected to the same testing procedures as described in the water resistance test.

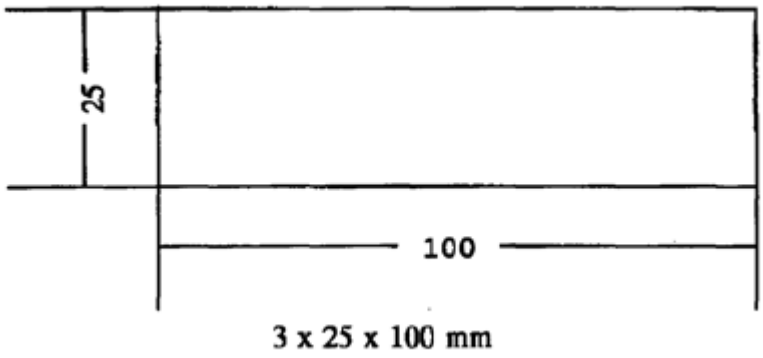
Characteristics and Physical Properties

	Units	Test Standard	Result
Before Curing			
Appearance		JIS K 6830	Grey paste
Specific gravity (25℃)		JIS K 6830	1.62
Consistency (25℃)		JIS K 6830	295
Storage life (25℃)		JIS K 6830	1 year
Volume change 400℃ x 3 minutes 400℃ x 30 minutes	%	JIS K 6830	 12 -12
Fuel level flow property	mm	Equivalent to JIS K 6830	1
After Curing			
Hardening		JIS K 6830	75
Material Strength	MPa	See: "Test Method"	5
	Units	Test Standard	Result
Shear strength Oily surface De-greased surface	MPa	JIS K 3820	 12 18
Non-volatile matter	%	JIS K 6830	66
Pressure resistance		Equivalent to JIS K 6820 1.47 MPa	No leakage
Water resistance		Insoluble; no crack	No abnormalities

ThreeBond Europe S.A.S.
BP 39105
95073 Cergy-Pontoise Cedex
Tel : +33 (0)1 34 32 39 60
Fax : +33 (0)1 34 32 39 61

Test Method

Material Strength
A 3 mm thick rectangular sample is moulded then the tensile strength is measured.
(Tensile speed: 50 mm/min)



3 x 25 x 100 mm

* Samples preparing condition: 1 hr + normal temperature after
2 hr + 400℃ after 24 hr + 100℃.

Handling Precautions

1. Do not inhale or ingest. In the event that this product is ingested, immediately consult physician.
2. Product may settle upon storage, stir well until uniform before using.
3. After use, close the lid tightly, then store. Do not return unused portion, if transferred, to original container.
4. Before use, clean the bonding area to remove grease or dust.
5. Apply with brush, oiler or Three Bond Flow Gun.
6. Tighten joints 2-4 minutes after application.
7. Keep away from children.
8. For industrial use only.

Shelf Life

12 months when stored at 10 ~ 25°C, unopened.

Packaging

Available in packing size of 1 kg (can) and 20 kg (pail).

ThreeBond Europe S.A.S.
BP 39105
95073 Cergy-Pontoise Cedex
Tel : +33 (0)1 34 32 39 60
Fax : +33 (0)1 34 32 39 61

TB 1109J

Disclaimer

For Industrial Use Only

(Do not use for household purposes)

- The data contained in this report are obtained from experimental results, based on our test methods. We cannot assume absolute responsibility for accuracy and safety. Before using this product, use your own judgement to determine whether or not this product meets the requirements of the application and objectives. This includes the burden of responsibility and hazardous danger. The extent of the guarantee provides replacement for products, which are clearly unsatisfactory.

- We assume responsibility for neither injury nor property damages resulting from the misuse of this product.

- We do not assume responsibility without written notice or contract.