

# ThreeBond

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ThreeBond Co., Ltd.

## Technical Data

### ThreeBond 1212

Single component, room temperature vulcanizing, silicone sealant

#### 1. Product description

ThreeBond 1212 is a single component, room temperature vulcanizing, silicone sealant (white). Has excellent chemical resistance and also excellent initial pressure resistance.

#### 2. Features

- (1) A solvent-free sealant that cures by reacting to moisture in the air
- (2) Excellent chemical resistance and oil resistance, etc.
- (3) Quick tack-free time and excellent initial pressure resistance
- (4) Excellent resistance to high and low temperatures. Maintains rubber elasticity over a wide temperature range of -60 to 200°C

#### 3. Applications

Seals engine oil pan, agricultural machinery engines and other engine parts

#### 4. Properties

Test items	Test methods	Units	Measured values
Appearance	3TS-201-01	-	White paste
Reaction type	-	-	Deoxime reaction
Viscosity	3TS-210-08	Pa·s (P)	100 (1,000)
Specific gravity	3TS-213-02	-	1.04
Tack-free time	3TS-219-04	min	7

( ) are reference values

#### 5. Cured properties

##### 5.1 Cured properties

Test items	Test methods	Units	Measured values
Appearance	3TS-201-02	-	Elastic rubber
Hardness	3TS-215-02	-	A 30
Elongation	3TS-320-01	%	300
Tensile strength	3TS-320-01	MPa (kgf/cm <sup>2</sup> )	2.0 (20)
Lap shear strength Al	3TS-301-23	MPa (kgf/cm <sup>2</sup> )	1.0 (10)

## 5.2 Chemical resistance (weight change percentage)

	Units	ThreeBond 1212
Oil resistance	%	+5.0
Water resistance	%	+1.3
Gasoline resistance	%	-15.1

Test method      Conforms to JIS-K-6820

**6. Usage method**

- (1) Remove moisture, oil and other contaminants completely from the bonding surface by wiping.
- (2) Remove cap from tube body, mount the attached nozzle to the end of the tube and cut diagonally at a suitable place.
- (3) Align the nozzle tip with the coating area then dispense the required amount of sealant.
- (4) Dispense the sealant to the joint surface by nozzle, spatula, etc.
- (5) After dispensing the adhesive sealant, the coated surface begins to cure in 3 to 6 minutes.
- (6) After dispensing the sealant, assemble as soon as possible.
- (7) After using, remove the nozzle and remove the air from the tube then seal.

**7. Storage method**

Regarding storage, in order to prevent deterioration or foreign matter, store in a cool dark, away from direct sunlight at a low temperature (10 to 25°C).

**8. Handling precautions**

- (1) Keep out of reach of children.
- (2) Combustible. Do not use near fire.
- (3) Harmful to health. Do not directly touch nor inhale fumes.
- (4) If in eyes, rinse with clean water for about 15 minutes, and get medical attention.
- (5) Wash eyes after removing contact lenses.
- (6) Never use this product on medical implant devices.
- (7) Contains harmful materials. Do not use for drinking water or hot water supply piping.
- (8) Before using, sufficiently confirm whether the method of application and the purpose are appropriate.
- (9) Ascertain in advance whether or not the bonding surface will be affected. If any problem occurs, discontinue use.
- (10) This product is has insulation property material, therefore do not adhere to electric contacts.
- (11) Store in a dark dry place at 10 to 25°C away from direct sunlight.
- (12) For industrial use. Do not use as household use.

**9. Disposal method**

Dispose as industrial waste by professional industrial waste processing company.

## 10. Precautions

For Industrial Use Only
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(Do not use for household purposes)

This product was developed for general industrial use. Before using this product, the user must agree with the following conditions.

- The technical data described in this report are based on our company's test method specifications. These values do not represent guaranteed values.  
Also, there are no guarantees that the uses presented in this report do not infringe on any third party's intellectual property rights.
- Regarding safety validation, the user bears all responsibilities and risks associated for confirming prior to use. Absolutely do not embed this product into body by injection or as residue from medical implant applications.
- Three Bond accepts no responsibility for injuries and damages caused by improper handling of this product. If the user is uncertain about properties of this product and/or how to use it, absolutely do not use.
- Information contained herein is subject to change at our discretion.