

ThreeBond

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Three Bond Co., Ltd.

Technical Data

ThreeBond 2583G

Electrical contact rust-preventing, lubricating and protecting agent

1. Product description

ThreeBond 2583G is a rust-preventing, lubricating and protecting agent for electrical contacts. It protects electrical contacts from rusting and reduces the friction applied to the contacts. Hereinafter, ThreeBond is abbreviated to TB.

2. Features

- (1) Excellent rust preventing effect
- (2) Excellent resistance to metallic corrosion

3. Applications

Rust prevention and lubrication of electrical contacts

4. Properties

Table 1 Properties of TB2583G

| Test items | Unit | Characteristic value | Test methods | Remarks |
|--------------------|------|----------------------|--------------|---------|
| Appearance | - | White | 3TS-2100-020 | |
| Consistency | - | 320 | 3TS-2B00-001 | 25°C |
| Worked penetration | - | 311 | JIS K 2220 | 25°C |
| Specific gravity | - | 0.83 | 3TS-2500-002 | 25°C |

5. Characteristics

5.1 Characteristics

Table 2 Characteristics of TB2583G

| Test items | Unit | Characteristic value | Test methods | Remarks |
|-----------------------------|------|----------------------|--------------|-----------------------------|
| Coefficient of friction | - | 0.14 | 3TS-2D00-002 | 25°C |
| Dropping point | °C | 198 | JIS K 2220 | |
| Oil separation | % | 6.39 | JIS K 2220 | |
| Evaporation rate | % | 0.34 | JIS K 2220 | |
| Copper plate corrosion test | - | No corrosion | JIS K 2220 | 100°C for 24 hrs (method B) |

5.2 Resistance to plastics

Table 3 Resistance of TB2583G to plastics

| | |
|--------------|--|
| Not affected | Nylon, glass epoxy, polycarbonate, ABS resin, acryl, polystyrene, polyethylene and polypropylene |
| Affected | - |

Test method: 3TS-9220-001, 40°C for 24 hrs

6. Usage

- (1) Due to the properties of the product, it may more or less separate into layers. If supernatant is generated, remove it with waste cloth prior to use.
- (2) Do not apply the agent to high-temperature metallic parts.
- (3) Before using, make sure that the agent does not affect the parts.

7. Directions for use

- (1) Keep out of reach of children.
- (2) Combustible. Keep away from fire.
- (3) This product is harmful to the health. Do not touch it directly or inhale fumes.
- (4) Use suitable protective equipment, such as a mask, goggles and gloves (impervious). Use in a well-ventilated outdoor area or in a place equipped with a local exhaust system.
- (5) If swallowed, do not induce vomiting. Immediately rinse the mouth, and get medical attention.
- (6) If in eyes, rinse with clean water for at least 15 minutes, and get medical attention.

- (7) If on skin, wipe away with a cloth, and wash with soap.
- (8) If any bodily abnormality occurs, discontinue use, and get medical attention.
- (9) Before using, sufficiently confirm whether the method of application and the purpose are appropriate.
- (10) Do not dilute or mix the agent with organic solvents or any other substance.
- (11) Some materials may deteriorate if this product is used.
- (12) The effects on the application area should be confirmed in advance. If there are any problems, do not use.
- (13) For hazard and toxicity information not mentioned herein, see the material safety data sheet (MSDS).

8. Storage

To prevent deterioration and contamination, store it indoors in a dark dry place away from direct sunlight and freezing.

9. Disposal

When disposing, treat this product appropriately as industrial waste.
Used containers and waste cloth(s) shall be disposed of in the same manner.

10. Cautions

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

This product is developed for general industrial use. Before using this product, the user must accept the following terms:

- The technical data given herein are not guaranteed values, but examples of experimental values obtained by our specified test methods. We do not guarantee that the uses described herein do not conflict with any intellectual property right.
- Before using this product, confirm the appropriateness and safety of the use for the application in question, and bear all responsibilities and risks involved in the use. Never embed or inject into bodies nor use as a medical implant that may be left in the body.
- We are not liable for personal injury or property damage caused by improper handling of this product. If the properties or usage of the product to be used are unclear, never use it.
- For detailed safety information of the product, see the Material Safety Data Sheet (MSDS). To obtain the MSDS, contact our sales office or customer service center.
- Information in this document is subject to change at our own discretion.