

ThreeBond

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Three Bond Co., Ltd.

Technical Data

ThreeBond 2720C

Industrial water-soluble lubricant

1. Product description

ThreeBond 2720C is a lubricant to be used to fit O-rings and rubber parts to metallic parts. The lubricant is water-soluble, and Ordinance on the Prevention of Organic Solvent Poisoning does not apply to it.

Hereinafter, ThreeBond is abbreviated to TB.

2. Features

Rubber parts can be smoothly fitted.

3. Applications

Lubricant for rubber parts

4. Properties and characteristics

Table 1 Properties of TB2720C

Test item	Unit	Result	Test method	Remarks
Appearance	-	Transparent and colorless	3TS-2100-001	-
Viscosity	mPa·s	530	3TS-2F00-001	25°C
Specific gravity	-	1.03	3TS-2500-001	25°C
Heating residue	%	6.0	3TS-2510-003	-
pH	min	8.7	3TS-6400-002	25°C

5 Characteristics

Table 2 Effects of TB2720C on metals

Kind of material	Test result
Iron JIS G 3141(SPCC-SB)	No change
Tin plate JIS G 3303(SPTE)	No change
Aluminum JIS H 4000(A2024P)	No change
Copper JIS H 3100(C1100P)	No change

* After each test piece (1.0 × 25 × 50 mm) was immersed in TB2720C for 24 hours, the test piece was taken out from the lubricant, and changes in appearance were observed.

Table 3 Effects of TB2720C on rubbers

Kind of material	Unit	Test result
CR	%	+0.3
NR		+0.3
NBR		+0.3
EPDM		0.0
Urethane rubber		+1.5

* After each test piece (1.0 × 25 × 50 mm) was immersed in TB2720C for 24 hours, the test piece was taken out from the lubricant and washed with water. Then, it was left for 30 minutes, and the weight change rate was measured.

Table 4 Effects of TB2720C on plastics

Kind of material	Test result	Kind of material	Test result
PVC (hard)	No change	PMMA	No change
PP	No change	ABS	No change
PE	No change	PPO	No change
PS	No change	PBT	No change
PC	No change	No change PPS	No change
POM	No change	Nylon -6,6	No change

* The test was conducted in conformity with 3TS-9220-001. However, the leaving time was 24 hours at 40°C.

6. Usage

- (1) Before use, shake well the container to stir the contents.
- (2) Dilute TB2720C 20-fold with water, apply an appropriate amount of the solution to the rubber part with a sprayer or a brush, and fit the part.
- (3) If the solution is applied to any unintended area, wash away with water, or wipe away with waste cloth. Or remove the clear coating formed after drying.

7. Warning

- (1) **Do not inhale or ingest.** Harmful to health. Do not inhale or ingest.
- (2) For sensitive skin or prolonged use, wear protective gloves.
- (3) When using it, wear appropriate protective equipment, such as a mask, protective goggles, apron and boots, as needed.
- (4) Keep out of reach of children.
- (5) For other hazard and toxicity information, see the material safety data sheet (MSDS).

8. First aid

- (1) If swallowed, induce vomiting. Immediately get medical attention.
- (2) If in eyes, immediately rinse with clean water thoroughly.
- (3) If on skin, rinse with clean water, and wash with soap.
- (4) If you feel ill while using it, stop using it, and keep quiet in a well-ventilated place.
- (5) If any abnormality is found, get medical attention.

9. Directions for use

- (1) Do not use it for any purpose other than the specified purpose.
- (2) If it adheres to clothing, it may stain the clothing. Handle it carefully.

10. Storage and disposal

- (1) Store it in a cool dark place. Do not store it where it will be exposed to direct sunlight or it will be easily rusted by water or moisture.
- (2) It may freeze. Do not keep it in a place where the temperature may become -0°C or less.
- (3) After the agent has all been used, dispose of the container as industrial waste.

11. Precautions

For Industrial Use Only

(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.