

# TECHNICAL DATA SHEET

## BONDAN AN43

Revision: 03.03.2021

Version: 1.001



### PRODUCT DESCRIPTION

BONDAN AN43 is a solvent-free, **medium strength**, anaerobic curing thread locker. The adhesive is well suited for securing and sealing threaded connections and enables dismantling using basic tools without damaging the components.

BONDAN AN43 is formulated to have a viscosity which supports spreading of the product in the thread while achieving friction values comparable to oiled screws. Moreover, the thixotropic properties drastically reduce undesirable run-off. When cured, the adhesive exhibits a high dynamic fatigue strength and good long-term temperature behavior. The product protects against leaks caused by shocks and vibrations as well as unintentional unfastening of screws.

### TECHNICAL PROPERTIES

Color	blue
Chemical basis	Dimethacrylate ester
Viscosity at 25 °C	2000 - 2400 mPa·s (Brookfield, sp. 4, 100 rpm); thixotropic
Density at 25 °C (DIN EN 542)	1.1 g/cm <sup>3</sup>
Max. gap	0.25 mm or M36
Thread friction	0.16
Fixture time (rt, M10):	
Zinc-phosphated	< 40 min
Stainless steel	< 40 min
Zinc galvanized steel	< 40 min

The fixture time is especially influenced by the material surface, the gap and the curing temperature. In the case of passive surfaces and/or low temperatures, curing can be accelerated using the activator BONDAN AT91.

### PROPERTIES IN THE CURED STATE

Locking torque (ISO 10964)	
Breakaway	≈ 14 Nm
Prevailing	< breakaway torque
Compression shear strength (referring to ISO 10123)	≈ 12 N/mm <sup>2</sup>
Temperature range	-60°C/+150°C

### Chemical resistance (DIN 53287 – test method referring to DIN 54454)

Depicted is the relative strength in % after 1000 h exposure to the specific chemical

water/ethylene glycol (87 °C)	100 %
motor oil (MIL-L-46 152; 125 °C)	100 %
gasoline (rt)	95 %
brake fluid (rt)	100 %
ethanol (rt)	90 %
acetone (rt)	85 %

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### DIRECTIONS FOR USE

- Please consult the safety data sheet before use.
- Clean, dry and grease-free surfaces ensure the maximum strength.
- Soiled surfaces must be cleaned (e.g. with BONDAN Cleaner or an appropriate solvent).
- Ensure sufficient flash-off time when cleaning parts.
- The curing time is especially influenced by the material pairing, curing temperature, gap and substrate surface.
- Dismantling and removal of adhesive residues can be facilitated by heating to 250 °C.
- This product is not suitable for application in an atmosphere consisting of pure oxygen or in highly oxidizing environments (e.g. chlorine).

### STORAGE

- 12 months at 8 to 21 °C in unopened packaging
- Do not store in the refrigerator

### PRODUCT LABELLING

See safety data sheet.

### PACKAGE UNITS

- For manual application 50 g, 250 g

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