

TECHNICAL INFORMATION

BEST-MK 4423

BEST-MK 4423 is a one component, solvent free, super high strength anaerobic curing adhesive based on Dimethacrylate ester. The viscosity is low.

BEST-MK 4423 is the standard product for bonding of coaxial parts, bearings and bushings. This product is also recommended for permanent locking and sealing of threaded fasteners. Disassembly is extremely difficult.

BEST-MK 4423 combines very high strength with excellent chemical resistance. The “breakloose” moment with threaded fasteners is extremely high and could cause the fastener to break or damage the thread if removed. The low viscosity provides a good capillary action which supports the adhesive distribution on the bonded surfaces.

PROPERTIES (liquid product)

Chemical Type	Dimethacrylate ester
Curing system	anaerobic
Color	green
Strength	super high strength
Viscosity (Brookfield)	150 - 400 mPas
Density (DIN EN 542)	1,1 x 10 ³ kg/m ³
Thread sizes up to	M12
Bonding gap	0,05 – 0,15 mm
Thread friction	0,17
<u>Shelf life in unopened original container</u> (Storage temperature at 8 to 21°C)	2 Years
<u>Shelf life in unopened original BULK</u> (Storage temperature at 8 to 16°C)	ca. 3 months

CURING TIME @ 23°C

Fixture time	3 - 10 min.
Functional strength	2 - 4 hrs.
Total curing time	10 - 12 hrs.



STRENGTH VALUES(cured product)

Compression/shear strength (DIN EN 15337)	(23°C) For 200°C	32 N/mm 21 N/mm ²
Breakloose Moment (DIN EN 15865)		>25 Nm
Breakaway Moment (DIN EN 15865)		55 Nm
Temperature range		
For thread locking		-60°C up to +175°C
For bonding of coaxial parts		-60°C up to +220°C

ENVIRONMENTAL AND CHEMICAL RESISTANCE

(DIN EN 53287 - test in accordance to DIN EN 15865)
in % of the initial strength after 1000h Chemical absorption

Water/Glycol at 87°C	90%
Motor Oil (MIL-L-46 152) at 125°C	100%
Unleaded Gasoline at 23°C	100%
Brake fluid at 23°C	100%
1,1,1 Trichlorethane at 23°C	100%
Ethanol at 23°C	100%
Acetone at 23°C	95%

For resistance against other chemicals, please check the chemical resistance listing.

Industrial health and safety standards

Hazard Statements: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Toxic to aquatic life with long lasting effects. General knowledge for safe handling of chemicals is recommended. Please consult the EU – Safety Data Sheet for further information.

General

The data and information above correspond to the current know-how of BEST-Klebstoffe GmbH & Co.KG. Our information and data have been developed from laboratory tests and extensive practical experience. They shall not release any customer from its duty to perform receiving inspections and to do test runs in view of any intended use, nor do they constitute a representation that any product will have specific properties or be suitable for any definite use.

BEST-Klebstoffe GmbH & Co. KG reserves the right to change the contents of this document as necessary.

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