



## TECHNICAL INFORMATION

## BEST-MK 1523

**BEST-MK 1523** is a one-component, solvent-free, high temperature resistant and medium viscous anaerobic curing adhesive based on di-methacrylate-ester.

**BEST-MK 1523** is especially recommended for bonding of coaxial parts, bearings and bushings with high temperature resistance requirements. It is also recommended for locking and sealing of threaded fasteners.

**BEST-MK 1523** combines high strength with excellent chemical resistance. The breakloose moment is extremely high. Disassembly of thread connections might cause damage to thread or screw. The low viscosity of the product provides an even distribution product on the bonding surfaces.

PROPERTIES (liquid product)

Chemical type	Di-methacrylate-ester
Curing system	Anaerobic
Appearance	Green
Strength class	Temperature-resistant
Viscosity (Brookfield)	300 mPas
Thread size	up to M20
Density (DIN 51757)	1,1 x 10 <sup>3</sup> kg/m <sup>3</sup>
Max. gap filling	0,05 – 0,15 mm
Thread friction	0,17
Shelf life (Storage in unopened original container at 10°C up to 23°C)	12 months
<u>Curing time @23°C</u>	
Fixture time	5 to 15 minutes
Functional strength	2 – 4 hours
Final strength	12 hours



**STRENGTH VALUES (cured product)**

Compression shear strength (DIN 54452) at 23°C	24 N/mm <sup>2</sup>
at 200°C	23 N/mm <sup>2</sup>
Breakloosemoment (DIN 54454)	38 Nm
Breakawaymoment (DIN 54454)	50 Nm

**TEMPERATURE RANGE**

-60°C – +220°C

**CHEMICAL AND ENVIRONMENTAL RESISTANCE**

**(DIN 53287 – Test in accordance with DIN 54454)**

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 more information on resistance against other chemicals please contact BEST-Klebstoffe.

**HEALTH AND SAFETY STANDARDS**

This product is classified as Xi-irritant. Irritates eyes and skin. General rules regarding handling of chemicals apply. For further information please see corresponding material safety data sheets.

**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. It is the user's responsibility to perform receiving inspections and to determine suitability for the user's purpose of any production methods. We disclaim all warranties expressed or implied, that any product will have specific properties for a particular purpose. BEST-Klebstoffe GmbH & Co. KG reserves the right to change the contents of this document as necessary.

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