



TECHNICAL DATA SHEET

A NEW FORCE IN CHEMICAL MANUFACTURING

AEROSOLS | WELDING CHEMICALS | ADHESIVES & THREADLOCKERS | ANTI-SEIZE & GREASES | CLEANING CHEMICALS & SOLVENTS | ELECTRICAL & ELECTRONICS

Issued: August 2020

Rapidstick™ 8243 Threadlocker

PART NUMBER	AVAILABLE SIZE
8243-10	10ml Bottle
8243-50	50ml Bottle
8243-250	250ml Bottle

PRODUCT DESCRIPTION

Chemtools® Rapidstick™ 8243 Threadlocker is fast curing with medium strength for bonding and sealing threads of less active material, such as stainless steel and plated parts. It is ideal for fasteners with diameters between 6mm to 20mm (1/4" to 3/4"), and is highly resistant to heat, vibrations, water, gases, oils, hydrocarbons, and many chemicals.

8243 locks and seals threaded joints, nuts, screws, and studs with improved oil resistance, and is specifically formulated to give controlled friction and torque/tension ratio during assembly. It performs best in thin bond gaps, and can also be used for the retaining of cylindrical parts.

8243 meets Military Specifications:

- MIL-S-46163 Type II, Grade N
- MIL-S-22473E Letter Grade CVV

DIRECTIONS (READ LABEL BEFORE USE)

All surfaces must be clean, dry, and free of dust and grease.

Apply to the bolt in sufficient quantity to fill threads.

DISTRIBUTED BY



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SERVICE & SUPPORT

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LIQUID PROPERTIES:

Composition	Methacrylate Ester
Appearance	Blue
Viscosity @ 25°C, Brookfield RVT, Spindle 3, 20 rpm	2,250 cps
Maximum Diameter of Thread/Gap Filling	20mm (3/4")
Flash Point	> 100°C
Shelf Life	2 years from the date of manufacture

CURED ADHESIVE PROPERTIES:

Service Temperature Range	-55°C to +150°C
Handling Cure Time	10 – 12 minutes
Functional Cure Time	1 – 3 hours
Full Cure Time	24 hours

MECHANICAL PROPERTIES:

Coefficient of Thermal Expansion, ASTM D696, K ⁻¹	80 x 10 ⁻⁶
Coefficient of Thermal Conductivity, ASTM C177, W.m ⁻¹ .K ⁻¹	0.1
Specific Heat, kJ/Kg.K	0.3
Compressive Shear Strength, ISO 10123, Steel Pins and Collars	> 8 N/mm ² / > 1,000 psi

Torque, ISO 10964, M10 Steel Nuts and Bolts

Breakaway Torque	20 N.m. / 180 lb.in.
Prevail Torque	7 N.m. / 60 lb.in.
Break Loose Torque, Pre-Torqued to 5 N.m.	24 N.m. / 210 lb.in.
Max Prevail Torque, Pre-Torqued to 5 N.m.	24 N.m. / 210 lb.in.

CHEMICAL RESISTANCE PROPERTIES:

Chemical	Temperature	% Initial Strength Retained	
		500 hours	1,000 hours
Acetone	22°C	95	90
Ethanol	22°C	100	100
Motor Oil	125°C	95	95
Petrol	22°C	100	100
Brake Fluid	22°C	100	100
Water/Glycol	87°C	90	80



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FIRST AID & SAFETY PRECAUTIONS

Please refer to Safety Data Sheet (SDS) before use. Use with adequate ventilation and avoid breathing fumes. Avoid contact with eyes and skin. This product may produce adverse health conditions, ranging from minor skin irritation to serious systemic effects. It should not be used, stored, or transported until the handling precautions and recommendations as stated in the Safety Data Sheet (SDS) for this product have been fully understood by all persons who will work with the material.

STORAGE

Keep out of reach of children. Store in a sealed container in a cool, dry place. Do not return any unused material to its original container.

Containers must be secured and stored upright during transit.

DISCLAIMER

Chemtools® has made every effort to ensure the information provided in this Technical Data Sheet is accurate at the time of publication. Chemtools® expressly recommends that the user make his/her own assessment to determine the suitability of the product for its intended purpose prior to application. Chemtools shall not be responsible for loss, damage, or injury, resulting from the reliance upon, or failure to adhere to, any recommendations or information contained herein; nor from abnormal use of the material; nor from any hazard inherent in the nature of the material.

FURTHER INFORMATION

Please visit Chemtools® online at www.chemtools.com.au for product photos, marketing materials, Technical Data Sheets, Safety Data Sheets, contact details, and other company/business related information.

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