



A NEW FORCE IN CHEMICAL MANUFACTURING

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TECHNICAL DATA SHEET

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PRODUCT NAME

8242 Medium Strength Threadlocker

PRODUCT RANGE

Part Number	Available Size
8242-10	10 ml
8242-50	50 ml
8242-250	250 ml



Refer to MSDS for product safety guidelines

8242 Medium Strength Anaerobic Thread Locking Compound

Chemtools® 8242 is a fast curing, medium strength, anaerobic thread locking compound for bonding and sealing threads, and retaining of cylindrical parts. It is highly resistant to heat, vibrations, water, gases, oils, hydrocarbons and many chemicals.

APPLICATIONS:

- Ideal for thread locking plated parts, vibrating or moving components.
- Ideal for fasteners between 6 to 20 mm (1/4" and 3/4") diameters.
- Locks and seals threaded joints - nuts, screws, and studs.
- Meets 90% of all nut and bolt thread locking applications.
- Meets Military specifications: MIL-S-46163 Type II Grade N, MIL-S-22473E Letter Grade CVV

PHYSICAL PROPERTIES:

Composition	Methacrylate Ester
Appearance	Blue
Viscosity (@ 25°C)	1,200 cps
Specific Gravity	1.07
Maximum Diameter of Thread/Gap Filing	M36 (1 1/2")/0.20 mm
Flash Point	> 100°C
Solvent Content	None
Shelf Life	1 year

CURING PROPERTIES:

Handling Cure Time	10 - 20 minutes
Functional Cure Time	1 - 3 hours
Full Cure Time	24 hours
Shear Strength	8 - 12 N/mm ²
Temperature Range	-55 to 150°C

Locking Torque - Break	17 - 22 Nm
Locking Torque - Prevailing	5 - 8 Nm

CHEMICAL RESISTANCE PROPERTIES:

Chemical	Temperature	<u>% Initial Strength Retained</u>	
		<i>500 hours</i>	<i>1000 hours</i>
Acetone	22°C	100	90
Ethanol	22°C	100	100
Motor Oil	125°C	100	100
Petrol	22°C	100	100
Brake Fluid	22°C	100	100
Water/Glycol	87°C	90	80

APPLICATION INSTRUCTIONS:

Surfaces should be dry, clean, and free of any contamination. Threadlocker should be applied to the bolt in sufficient quantity to fill threads. Chemtools® 8242 performs the best in thin bond gaps. This threadlocker is specifically formulated to give controlled friction and torque/tension ratio during assembly.

STORAGE:

Anaerobic adhesives shall be ideally stored in a cool, dry place in unopened containers at a room temperature between 7°C to 28°C. Please do not return any unused material to its original container.

PRECAUTIONS:

This product is capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the material.

WARRANTY:

All products purchased from or supplied by Chemtools® are subject to terms and conditions set out in the contract. Chemtools® warrants only that its products meet the specifications designated as such herein, or in other publications. All other information supplied by Chemtools® is considered accurate, but is furnished upon the express condition. The customer shall make its own assessment to determine the products suitability for a particular purpose. Chemtools® makes no other warranty, either expressed or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or products will not infringe any patent.