



A NEW FORCE IN CHEMICAL MANUFACTURING

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TECHNICAL DATA SHEET

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PRODUCT NAME

8290 Medium Strength Threadlocker

PRODUCT RANGE

Part Number	Available Size
8290-10	10 ml
8290-50	50 ml
8290-250	250 ml



Refer to MSDS for product safety guidelines

8290 Medium Strength Anaerobic Thread Locking Compound

Chemtools® 8290 is a fast curing, penetrating, 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:

- Penetrates threads by capillary action. Medium strength threadlocker.
- Ideal for sealing hairline cracks, small nuts and bolts.
- Seals and welds porous metal parts. Localised heating and hand tools are needed for disassembly. Prevents corrosion and leakage.
- Secures setscrews and other assemblies after settings are completed.
- Fasteners on vibrating machines or moving components.
- Meets Military specifications: MIL-S-46163A Type III Grade R, MIL-S-22473E Letter Grade AA

PHYSICAL PROPERTIES:

Composition	Methacrylate Ester
Appearance	Green
Viscosity (Cannon-Fenske # 150, 25°C)	10 - 20 cps
Specific Gravity	1.07
Maximum Diameter of Thread/Gap Filling	M25 (1/2")/0.07 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

Locking Torque

- Break	15 - 25 Nm
- Prevailing	30 - 40 Nm

CHEMICAL RESISTANCE PROPERTIES:

Chemical	Temperature	% Initial Strength Retained	
		500 hours	1000 hours
Acetone	22°C	90	85
Ethanol	22°C	85	85
Motor Oil	125°C	85	65
Petrol	22°C	65	55
Brake Fluid	22°C	90	85
Water/Glycol	87°C	90	90

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® 8290 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:

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