

1. Product Description

Product description	: Anaerobic adhesive and sealants are advanced materials with single component and solvent free feature. The products are specifically formulated for sealing, retaining, locking and bonding of metal or metal plated assemblies. Anaerobic adhesives are stable when in contact with oxygen in air. As the product is placed between two mating metallic surfaces, where oxygen contact is vanished, polymerization starts and forms strong, vibration and pressure proof polymer layer.
Product form	: Mixture
Product name	: THREADLOCKER MEDIUM STRENGTH
Use of the substance/mixture	: Anaerobic adhesive (glue)
Recommended use	: Industrial use Consumer use Professional uses

2. Characteristics

Characteristics	: General purpose, medium-high strength thixotropic anaerobic threadlocker. The product cures when confined in the absence of air between closefitting metal surfaces. Formulated to lock all metric and imperial nuts and bolts, preventing vibration loosening and leakage through the threads. S-043 is slightly oil tolerant, so it will bond some 'as received' parts, but best results are obtained with clean substrates. The thixotropic nature of the product prevents run off, dripping and migration after assembly. S-043 is typically used on mounting bolts, housing screws, etc. S-043 prevents corrosion of assembled parts.
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3. Application

No information available

4. Application Instructions

- Clean male and female threads before assembly with an absorbent tissue paper to remove any cutting oil.
- The application surface should be dry and cleaned from dirt, dust and oil.
- Apply the adhesive with a 360 turn to leading threads of the male and female fittings.
- Use an absorbent tissue paper to wipe off excess jointing compound in the direction of the thread.
- Assembly parts and hold on for 24 hours at 22-24°C to ensure full curing of jointing compound.
- For disassembly, use hand tools to remove mating parts. When it is hard to disassemble at room temperature, apply local heat until reaching 150°C and disassemble while hot. Then, remove any residual cured adhesive mechanically and clean parts with a proper solvent, acetone.
- For further information, consult Safety Data Sheet and Technical Data Sheet.

5. Technical Specifications (@ 23 °C 50% RH)

Physical state	: Liquid
Chemical Basis	: Methacrylate ester.
Appearance	: Liquid.
Colour	: Blue
Odour	: characteristic
Strength	: Medium
Viscosity	: X cPs
Flash point	: > 93 °C
Specific Gravity	: 1.03
Thermal Conductivity	: 0.21 W/m.K
Gap filling	: up to 0.25mm
Corrosivity	: Non-corrosive
Coefficient of thermal expansion	: $6 \times 10^{-7} \text{ K}^{-1}$

Specific heat : 0.22 kJ/(kg.K)
Temperature Range : -50°C to 150°C

Handling Time	
Material of Specimen	Duration
Brass	<60 secs
Steel	5 to 7 mins
Stainless Steel	6 to 8 mins
Zinc Plated Steel	5 to 10 mins
Aluminium	20 to 35 mins

*Average functional curing time: 1 to 3 hours

*Average full curing time: 8 to 12 hours

Unseated assembly cured for 24 hours		
Type of Specimen	Breakaway Torque (T_{BA})	Prevailing Torque (T_P)
Zinc plated, M10	15 N.m	5 N.m
Zinc plated, M6	7 N.m	3 N.m
Stainless Steel, M10	12 N.m	3 N.m
Stainless steel, M6	6 N.m	2 N.m

Unseated assembly cured for 1 week		
Type of Specimen	Breakaway Torque (T_{BA})	Prevailing Torque (T_P)
Zinc plated, M10	16 N.m	5 N.m
Zinc plated, M6	8 N.m	3 N.m
Stainless Steel, M10	12 N.m	3 N.m
Stainless Steel, M6	6 N.m	2 N.m

6. Packaging

Packaging : Original packaging

Tube 50 ml	Package 120 pcs/ctn
Tube 250 ml	Package 36 pcs/ctn

7. Shelf Life and Storage

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Tube 50 ml	36 months (after production date, if stored at room temperature)
Tube 250 ml	36 months (after production date, if stored at room temperature)

8. Health and Safety

Adverse physicochemical, human health and environmental effects : May cause respiratory irritation. May cause an allergic skin reaction. Causes serious eye irritation.



S-043 SOMAFIX THREADLOCKER MEDIUM STRENGTH

Technical Data Sheet

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TDS No.: TDS.23.102

First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
Other medical advice or treatment	: Treat symptomatically.
Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment

9. Remarks

Remarks : For further information, please refer to the Safety Data Sheet

10. Standards and Certificates

No information available

Technical Data Sheet

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