

THREAD SEALANT

7716 / 8270 Anaerobic Thread Sealant

Product Specifications

TITASEAL®

General Information

TITASEAL 3577 is widely used for the locking and sealing of metal threaded pipes and fittings. This anaerobic sealant cures when confined in the absence of air between close fitting metal surfaces and prevents loosening from shock and vibration.

TITASEAL 3577 is ideal to seal against gases, water, LPG, hydrocarbons, oils and other chemicals. Excellent thixotropic property prevents migration of the sealant before or during curing. This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

Application Method

Surfaces should be dry, clean, and free of any contamination. Apply a 360° bead of TITASEAL 3577 to the leading threads of the male fitting, leaving the first thread free. Force the material into the threads and voids, adjust product amount accordingly and apply a 360° bead of TITASEAL 3577 on the female threads also. Using standard practices, assemble and wrench tighten fittings until proper alignment is obtained. Properly tightened fittings will seal instantly to moderate pressure.

Storage

Anaerobic adhesives shall be ideally stored in a cool, dry place in unopened containers at a room temperature between 8°C to 28°C. Please do not return any unused material to its original container.



Physical Properties

Composition	Dimethacrylate ester
Colour	Yellow
Viscosity	16,000 to 30,000 cps thixotropic
Brookfield	RVT @ 25°C
Spindle	6 @ 20 rpm
Specific Gravity	1.09
Maximum Diameter of Thread/Gap Filling	0.30 mm
Flash Point	> 100°C
Solvent Content	None
Shelf Life	1 year
Coefficient of Thermal Expansion, K-1 ASTM D 696	80 x 10 ⁻⁶
Coefficient of Thermal Conductivity ASTM C 177, W/m.K	0.10
Specific Heat, kJ/(kg • K)	0.30

Chemical Resistance

Chemical	Temp	% Initial Strength Retained	
		500 Hours	1000 Hours
Acetone	22°	100	90
Ethanol	22°	100	95
Motor Oil	125°	100	100
Gasoline	22°	100	100
Brake Fluid	22°	100	100
Water/Glycol	87°	90	90

Precautions

This product and the auxiliary materials normally combined with it are 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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Curing Properties

Handling Cure Time	10 - 30 minutes
Functional Cure Time	2 - 4 hours
Full Cure Time	24 hours
Breakaway Torque, ISO 10964: M10 steel nuts and bolts N•m	11 N.m 100 lb.in.
Prevail Torque, ISO 10964: M10 steel nuts and bolts	6 N.m 50 lb.in.
Break loose Torque, ISO 10964, Pre-torqued to 5 N•m: M10 steel nuts and bolts	17 N.m 150 lb.in.
Max. Prevail Torque, ISO 10964, Pre-torqued to 5 N•m: M10 steel nuts and bolts N•m	17 N.m 150 lb.in.
Compressive Shear Strength, ISO 10123: Steel pins and collars	> 5 N/mm ² > 725 psi
Temperature Range	-65 to 300 OF

For more information on Titaseal, contact:

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