



Product Description

ST-3 series products are resilient thread sealants for straight or tapered threaded fasteners. A widely-used, automotive industry approved product, ST-3 series materials immediately form a custom-fit, elastic gasket right in the threads that prevents the passage of most fuels and chemicals, and helps keep joints tight, even under severe vibration.

Product Features

- Pressure resistance > 2000 psi
- Normal Operating Temperature Range: -30°C - +180°C (-22°F - +370°F)
- On part shelf life: 4 years*
- Assembled shelf life: Life of assembly
- Designed for controlled lubricity. Typical K-Factor of 0.11 on plain steel fasteners
- Seals immediately after installation—No cure time required
- Resists vibration and remains elastic throughout a wide range of temperatures

Typical Applications

Pipe Plugs, Engine Applications, Head Gasket Application, Under Head Sealant for Torque Tension control, Automotive Hose Fittings, Cooling System, A/C System.

Sealing Properties

Reusable up to 3 times while retaining pressure resistance up to 1000 kPa and Fluid Resistance after immersion/exposure to the following conditions:

Fluid	Fluid Temperature	Test Pressure
Water/Antifreeze (40% dilution)	120°C/ 5 hours	1000 kPa
SAE10W-30 Engine Oil	160°C/ 5 hours	1000 kPa
Unleaded Gasoline	70°C/ 5 hours	1000 kPa
Automatic Transmission Fluid	150°C/ 5 hours	1000 kPa
Tap Water	100°C/ 5 hours	1000 kPa
Diesel Fuel #2	70°C/ 5 hours	1000 kPa

Heat Resistance Testing: After exposure to heat for 30 days at 177°C for 30 days then tested for fluid leakage at 1000 kPa all test assemblies pass.

General Information

Storage

*Fasteners coated with product have a 4 year on part life under ideal storage conditions [+40°F (+4°C) to +90°F (+32°C).

Note

The data contained on this data sheet is believed to be reliable. However, since actual conditions may vary, testing should be conducted by the user to determine suitability for their particular application. ND is a registered trademark of ND Industries, Inc.