

Material Description

ST-3 series thread sealants are pre-applied to straight or tapered threaded fasteners making them self-sealing and vibration resistant. As a widely used automotive industry approved process, ST-3 fasteners seal immediately upon installation, forming a custom-fit elastic gasket between threads. ST-3 is resistant to many chemicals and fuels. The materials are also used to provide consistent clamp load during part assembly. The table below shows the properties of only a select few of the many grades of ST3 sealant. Contact an ND sales representative to determine which grade will work best in your application.

Material Features

- Resists vibration and remains elastic throughout a wide range of temperatures and pressures
- Resistant to a wide range of fluids including transmission fluid, synthetic motor oil, and gasoline/alcohol blends
- Assembled shelf life: Life of assembly
- Designed for controlled lubricity
- Seals immediately after installation with no cure time required
- Different film hardness to meet application specific requirements

Typical Applications

ST-3 materials are used in a wide range of industrial, commercial, and residential applications. These include:

- Pipe plugs for many different fluids
- Pipe fittings and plugs potable and non-potable water applications (ST3L3)
- Engine and head gasket applications
- Under head sealant for torque tension control and uniform part installation
- Automotive hose fittings
- Liquid and air cooling systems
- A/C Systems.
- Pre-applied replacement to PTFE to save assembly time and improve consistency
- Approved to many OEM material and performance specifications (see www.ndindustries.com for full list).

General Information

Storage

Fasteners coated with product have a 4 year shelf life prior to installation. Ideal storage conditions are 4°C to 44°C. Store inside in covered containers.

The data contained on this data sheet is believed to be reliable. However actual conditions may vary and testing should be conducted by the user to determine suitability for their application.

Properties of Selected ST3 Sealants

Product	Color	Film Hardness (ASTM D3363)	Thread Friction Coefficient (μ^{th})	Minimum Use Temperature (°C)	Maximum Use Temperature (°C)
ST-3-W	White	5B	0.16	-55°C	205°C
ST-3-L3	White	5B	0.17	-55°C	205°C
ST-3-L8	White	B	0.18	-55°C	180°C
ST-3-L10	Burnt Orange	B	0.17	-55°C	180°C
ST-3-L5	White	HB	0.07	-55°C	180°C
ST-3-L6	Burnt Orange	HB	0.07	-55°C	180°C

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 For assistance and recommendations on specifications for this product, contact ND Industries.
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