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AST-SEAL™ HD

Anaerobic Pipe Sealant With PTFE

Product Description

AST-SEAL™ HD (Heavy Duty) is a High Performance Anaerobic Pipe Thread Sealant designed for use with Stainless Steel Pipe or applications where a fast curing Thread Sealant is needed to get your system back in service quickly.

AST-SEAL™ HD is a unique class of Thread Sealant because it undergoes a chemical cross linking to cure in the threads of the pipe to form a leak proof Polymer seal which withstands high pressures and resists vibration loosening and is resistant to many Industrial and Commercial Chemicals.

AST-SEAL™ HD will seal to 1,000 psi immediately after application and up to the burst rating of a typical pipe after curing for about 24 hours. Due to its small particle size, these sealants will not clog small orifices, valve openings, or screens typically found in most hydraulic systems.

AST-SEAL HD™ withstands temperatures from -65° to +400°F (-54° to +204°C) continuous, +500°F (+260°C) intermittent.

If the Pipe Fitting has a wide gap fill or if the material is being applied in very cold temperatures where a full cure is still needed, then a primer may be required to ensure a full cure is achieved.

AST-SEAL HD™ is the ideal product for tough thread sealing applications that have to be put back into Service quickly and reliably.

Features & Benefits

- Superior to other anaerobic sealants
- Prevents vibration loosening
- Does not plug up filters, valves, or gauges
- Seals pipes including 3" and larger
- Lubricates and prevents corrosion, seizing, and galling
- Easy disassembly
- Not volatile or flammable
- **AST-SEAL™ HD** is UL Classified
- **AST-SEAL HD** is approved for use with Diesel Exhaust Fluid (DEF) applications, Meets the requirements of ISO 22241.

Applications include

Ideal for Stainless Steel Pipe and Fittings, Valves, Gauges, and Connections in Hydraulic, Pneumatic, Lubrication, Steam, and Refrigerant Systems. Inert to most Industrial Chemicals and Hydrocarbons (Gasoline, Diesel Fuel, etc.), most Acids, Solvents, Ethanol and Gases.

Product Limited Warranty

This information is based on information we believe to be reliable and accurate, but no guarantee of its accuracy is made for a particular application. We urge and recommend that Users pretest their application prior to incorporating the product into use and assume that the User will conduct such testing. Also see warranty statement on website.

Storage and Shelf Life

For best results and a longer shelf life, AST-Seal HD should be stored at moderate Temperatures under 80 F. The shelf life is around 18 month if it is stored under these conditions. Storage at higher temperatures may shorten it shelf life or result is lower Prevailing Torque values.

Underwriters Laboratory

AST-Seal HD is classified by UL as to Fire Hazard only. Fire hazard is small. No flash point in liquid state. Ignition temperature 837°F (477°C) Suitable for use in devices handling gasoline, petroleum oils, natural gas (pressure no to exceed 300 psig), propane and butane.

Typical Properties

Property	Value
Temperature Range	to 400°F (204°C)
Pressure Range	Up to 1,000 psi immediately after application - up to burst rate of typical pipe after curing
Flash Point	Over 200°F (93°C)
Specific Gravity	1.2 (g/cc)
Viscosity, typical	400,000 - 500,000 cps.
Color	White to off white
Consistency	Paste
Gap Filling	0.020 inches (0.510mm)
Primer	Primer N or T
Speed of Cure-measured on cleaned black oxide bolts & steel nuts (3/8-16 UNC2)	Fixture Time - 2 hrs. Full Strength - 24 hrs.
Shelf Life	1 Year or more
RoHS	Compliant

Cautions

This product is not recommended for use in an oxygen system and not as a sealant for chlorine or other strong oxidizing materials. Read all information on labels and Safety Data Sheets prior to use. All products should be tested and evaluated for a particular purpose prior to use.

GHS compliant

This product requires GHS pictograms on labels.
Refer to Label and SDS for GHS information.

Available Sizes

Size: 20ml bottle, 50ml tube, 250 ml tube 350ml tube 750ml, 14 Liter Pail
P/N: 22150 22151 22152 22154 22153 22114