

B8X-272 High-Temperature Permanent Threadlocker

B8X-272 is engineered for permanent retention of large-diameter threaded assemblies exposed to extreme heat and mechanical stress. Its medium viscosity ensures controlled application while providing deep thread engagement. Ideal for critical joints in power generation, oil & gas, and heavy machinery where long-term reliability at elevated temperatures is essential.

Key Technical Specifications

Parameter	Value
Viscosity	Medium (~1,500–3,000 cP, typical)
Color	Orange
Thixotropic	No
Recommended Fastener Size	M25 and larger
Fixture Time	~50 minutes
Breakaway Torque (M10 steel)	23 N · m (220 lb · in)
Prevailing Torque (M10 steel)	25 N · m (220 lb · in)
Service Temperature	-54°C to +232°C (-65°F to 450°F)
Packaging	20 ml / 250 ml

Note: Torque values shown for reference on M10; actual performance scales with fastener size and surface condition.

Performance Highlights

- **Extreme Temperature Resistance:** Continuous service up to **232°C (450°F)** —among the highest in anaerobic threadlockers.
- **Optimized for Large Fasteners:** Formulated for M25+ bolts, studs, and flange connections.
- **Permanent Locking & Sealing:** Prevents loosening and leakage in high-vibration, high-pressure systems.
- **All-Metal Compatibility:** Bonds reliably to carbon steel, stainless steel, and plated surfaces.

Typical Applications

- Turbine and compressor casings
- Engine block and manifold studs
- Flanged pipe connections in refineries
- Mining and drilling equipment
- Large electric motor housings

Application Notes

- Apply to clean, dry threads; assemble immediately.
- Full cure in 24–72 hours depending on temperature and gap.



- Disassembly requires localized heating to $>250^{\circ}\text{C}$.
- Store sealed at room temperature ($<25^{\circ}\text{C}$).

Available in 20 ml and 250 ml bottles.