

## THREAD SEALANT WITH PTFE

- For use to seal and lock metal threaded pipes and fittings
- Contains PTFE for high lubricating qualities
- Protects from thread galling
- Protects threads from rusting
- Fast curing white colored anaerobic formulation
- Quick and easy to apply
- Good chemical resistance
- Managed strength – can be removed with hand tools

### Description

NuLock (p/n: 4289-03) is a fast curing, anaerobic thread locking formulation for sealing and locking metal threaded pipe and fittings in systems employed used in commercial settings. An anaerobic based product remains liquid until isolated from oxygen with metal contact in fitting threads. To cure, the product requires lack of oxygen in close contact with metal surfaces – its timing depends on the metal alloy. The process results in a chemical resistive cross-link polymer with great adhesion to metals that provides both a thread sealant and locking – depending on application. This specific formulation is formulated with PTFE (polytetrafluoroethylene) that offers added lubricity during assembly. The use of NuLock prevents thread galling and rusting so disassembly is easy if ever necessary. NuLock has controlled strength and good chemical resistance, plus highly resistant to heat and vibrations making it the recommended formulation for systems that require the assembly of metal pipe thread components.

### Application

NuLock formulation 4289-03 is a thread sealant with PTFE specifically for the assembly of systems that use metal threaded pipe and fittings. The product provides an alternative to pipe dope and PTFE tape when assembling metal threaded assemblies. NuLock Thread Sealant with PTFE provides the advantage of not having a solvent system where they shrink as they cure due to solvent evaporation. These thread sealants may require re-torque to prevent leakage. PTFE tapes lubricate when fastening pipe threaded fittings but they also lubricate in the opposite

## Specialty Products

### NuLock™



direction- resulting in a possibility of fastener creep where leakage could occur. NuLock with PTFE lubricates using assembly, seals and locks the connection in place.

The product has a managed strength cure; simply use standard hand tools if the connection requires disassembly. NuLock is NOT for use on plastic parts or for oxygen-rich systems or as a sealant for strong oxidizing materials.

### Packaging

50ml tube      **4289-03**

### Properties

Composition: Methacrylate ester  
Appearance: White paste  
Viscosity: 540,000 cps at 77°F (25°C)  
Flash Point: > 212°F (100°C)  
Shelf Life: Two years

Application Temperature: Apply above 50°F (10°C)  
Temperature Range: -65°F to 400°F  
Odor: Minimal  
Handling Cure Time: 10-30 minutes  
Functional Cure Time: 2-4 hours  
Full Cure: 24 hours

Breakaway Torque, ISO 10964:  
• M10 steel nuts and bolts: >15 in-lb.

### Directions

For professional use only, use personal protection equipment as required. Surfaces should be dry, clean, and free of contamination. Never use NuLock on plastic fittings – only metal threaded pipe and fittings. Apply

a generous 360-degree bead of NuLock in the leading threads of the metal male fitting, less the leading thread. Apply NuLock in sufficient quantity to fill threads to prevent a product void when connecting mating fasteners. For bigger connections, adjust the amount product use to fill thread volume accordingly, including applying a bead of NuLock on the female threads as well for best sealing/locking results.

Assemble parts and tighten as required. The handling time for NuLock is 10+ minutes. The product functionally cures

in 2-4 hours and fully cures in 24 hours. Recap the NuLock cap tightly to the tube for future use.

Storage: Optimum storage for NuLock is in its original unopened tube in a conditioned environment ranging 46°F to 82°F.

For additional safety information, see the product safety data sheet (SDS).