

FLANGE SEALANT

- Seals close tolerance rigid metal faces and flanges
- Form-in-place gasket option for select applications
- Fast curing purple colored anaerobic formulation
- Ready to use
- Quick and easy to apply
- Provides excellent instant seal
- Fills all voids
- Cures to flexible seal
- Excellent chemical and temperature resistance
- Low strength – flange can easily be removed

Description

NuLock (p/n: 4289-04) is a fast curing, anaerobic-based flange sealant. Product aids in gap fill in voids/imperfections of rigid metal faces and flanges to provide an instant, highly chemical resistant flexible seal. NuLock has excellent thixotropic property to prevent migration of the sealant before or during curing. Product has good shock and vibration resistance. An anaerobic based product remains liquid until isolated from oxygen with metal contact. 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 durable, flexible seal when fully cured. NuLock has good shock and vibration resistance. The product has low strength; the flange cover can be easily removed when necessary.

Application

NNuLock formulation 4289-04 is a flange sealant designed to aid in sealing in small gap fill areas of 0.01 inch (0.25mm) or smaller on rigid metal faces and flanges. The product provides an elastic seal to aid the compression gasket when poor surface contact or imperfection exists, which could result in minor leakage. In other applications, a gasket taking a set results loss in bolt load on the gasket surface, which could result in leakage from the system. Using NuLock in this application can aid seal durability of the flange connection. In other specialized applications, NuLock provides a form-in-place gasket option between small gap (0.01 inch) metal-flanged parts.

The product has a low strength cure; the flange is easily removal as necessary. NuLock is NOT for use on plastic parts or for oxygen-rich systems or as a sealant for strong oxidizing materials.

Specialty Products

NuLock™



Packaging

50ml tube **4289-04**

Properties

Composition: Polyurethane methacrylate
Appearance: Purple gel
Viscosity: 275,000+ 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 300°F
Odor: Minimal
Handling Cure Time: 10-90 minutes
Functional Cure Time: 3-6 hours
Full Cure: 6-24 hours

Shear Strength: 4-9 N/mm² (ASTM D-1002)
Tensile Strength: 8-23 N/mm² (ASTM D-2095)
Impact Strength: 5-8 N/mm² (ASTM D-950)
Elongation of Cured Film: over 100%

Directions

For professional use only, use personal protection equipment as required. Surfaces should be dry, clean, and free of contamination. NuLock is for close fitting metal flange parts with gap fill requirement up to 0.01 inch (0.25 mm). Never use NuLock on plastic mating surfaces. Low pressure may be used to confirm a complete seal immediately after assembly before product cures. Tighten flange assembly as soon as possible after assembly to avoid any shimming in the seal area.

NuLock handling time is 15+ minutes. The product functionally cures in 3-6 hours and fully cures in 6-24 hours. The cure times are application specific with factors including bond gap, metal type and ambient temperature during cure. 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).