



AST-LOCK™ 90PW

PENETRATING/ WICKING

MEDIUM TO HIGH STRENGTH

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Product Description

AST-LOCK™ 90PW is a Medium Strength, Penetrating and Wicking Threadlocker and Porosity Sealer with a very low viscosity which is used in post assembly applications after final torque is achieved, for applications where assembly was made but the installer forgot to apply a Threadlocker, or in applications to seal porosity in powder metal castings or Weld areas where you need to seal leak paths or increase the strength of the part.

This Threadlocker undergoes a chemical crosslinking only in the presence of metal and the absence of air. This is typically referred to as "curing". The Threadlocker begins to cure right after assembly and reaches full cure in about 24 hours depending upon temperatures. In Colder Climates it may require more time and in Warmer Climates, less time.

This Threadlocker is fluorescent blue under UV light for inspection purposes.

AST-LOCK™ 90PW works particularly well with softer more active metals such as Brass, Bronze, aluminum or steel. For Stainless Steel, Titanium, Alloys, plated fittings, fittings with 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.

Cleaning

Threadlockers work best if the parts are clean and free of grease, oil, foreign material or old Threadlocking agents. Normally cleaning with an appropriate solvent and / or wiring brushing the parts to ensure they are clean is adequate preparation.

Application

AST-LOCK™ 90PW is normally applied by hand from the bottle, directly to the part or assembly. For Fasteners you will need to have some threads exposed for the product to wick into the assembly. When you use it to seal porosity in castings or hairline cracks in parts, use a brush to work the Sealant into the part.

Typical Properties

Property	Value
Color	green
Fixture Speed , no primer	10 minutes @ 76°F
Fixture Speed with primer	We do not recommend using a primer
Full Cure Time	24 hr @ 70°F
Typical Breakaway Strength	20 – 100 in. lbs
Typical Prevailing Strength	200 to 350 in lbs.
Viscosity	15 cps
Max. Operating Temp.	-65°F to +300° F
MIL-S-46163-A	Type III, Grade R
ASTM D 5363	AN0261
RoHS 3	Compliant
Gap Fill	0.004 "

Cautions

This product is not recommended for use in oxygen systems 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.](#)

Storage and Shelf Life

For best results and a longer shelf life this product should be stored at moderate Temperatures under 80° F. The shelf life is around 24 months if it is stored under these conditions. Storage at higher temperatures may shorten its shelf life or result in lower Prevailing Torque values.

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.

Available In:

SIZE: 10 ml 50 ml 250 ml
P/N: 39901 39902 39903