



# AST-LOCK™ 42MS

## MEDIUM STRENGTH THREAD LOCKER

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### Product Description

**AST-LOCK™ 42MS** is a Medium strength Threadlocker designed to meet the needs of about 80% of all fastening applications. **AST-LOCK™ 42MS** prevent vibration loosening or shock resistance for the fastener, but you can also remove the fastener using common handtools.

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.

**AST-LOCK™ 42MS** Threadlocker work particularly well with softer more active metals such as brass, bronze, aluminum or steel. For Stainless Steel, Titanium, and other more exotic metals or if the material is being applied in very cold temperatures where a full cure is still needed, then a primer may be needed to ensure a full cure is achieved.

**AST-LOCK™ 42MS** works best for on a wide variety of applications and on a wide variety of thread geometries, both course threads and fine threads on sizes up to about 3/4". It is not recommended for certain plastic components as the methacrylate base may cause stress cracking.

**AST-LOCK™ 42MS** conforms to MIL-S-46163A and ASTM D-5363

### Cleaning

A Threadlocker works best if the parts are clean and free of grease, oil or old Threadlocking agents. Normally cleaning with an appropriate solvent or wiring brushing the parts to ensure they are clean.

### Application

For best results we recommend applying a thin coating of the Threadlocker to the length of thread that needs to be engaged in the fastener. For some applications you may be able to coat the circumference of one or two thread and allow the excess to be pushed up the thread as its being engaged.

### Available In:

**SIZE: 10ml, 50ml 250 ml**  
**P/N: 39421 39422 39423**

### Typical Properties

Property	Value
Color	Blue
Fixture Speed , no primer	20 minutes @ 76F
Fixture Speed with primer	< 5 seconds
Full Cure Time	24 hr @ 70F
Typical Breakaway Strength	100- 200 in. lbs
Typical Prevailing Strength	30 to 60 in lbs.
Viscosity ( Thixotropic)	1200-5000 cps
Max. Operating Temp.	-65F to 300 F
Primer	Primer N or T
Gap Fill	0.007"
Mil-S-46163-A	Type II, Grade N
ASTM D 5363	AN0321
RoHS	Compliant

### Storage and Shelf Life

For best results and a longer shelf life, Threadlocker 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.

### 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.

### 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.