

### BLUE MEDIUM STRENGTH THREADLOCKER GEL PART NO. 49446

#### PHYSICAL PROPERTIES

##### Monomer (Liquid)

Base Compound ..... Dimethacrylate Ester  
Color ..... Blue Gel  
Viscosity (cP @ 68°F/20°C) ..... Thixotropic  
Flash Point (TCC) ..... >200°F  
Corrosivity ..... None  
Toxicity ..... Low  
Specific Gravity (g/cc) ..... 1.06  
Shelf Life @ 40°F/4°C ..... 1 year unopened

##### Polymer (Cured)

Locking Strength ..... Medium  
Service Temperature Range ..... -75°F to 300°F  
Appearance ..... Blue solid  
Full Cure Time ..... 24 hours



#### DESCRIPTION

*Dynatex® Blue Medium Strength Threadlocker Gel* is a medium strength anaerobic threadlocking material, which cures between engaged threads to form a unitized assembly that resists virtually all leakage, shock and vibration. The product is a single component, anaerobic gel that cures when confined in the absence of air between close fitting metal surfaces. Ideal for all ¼ inch to 1 inch diameter nut and bolt assemblies. Excellent chemical resistance with a temperature resistance range of -65°F to 350°F (-54°C to 177°C). *Dynatex® Blue Medium Strength Threadlocker Gel* is easily removable with hand tools for servicing requirements. Protects against thread corrosion.

#### FEATURES

- Easy to use self-metering pump eliminates waste
- Easy to apply
- No drips – stays where it is applied
- No mess
- Works on bolts from ¼" to 1" (6mm-25mm)
- Easy cleanup

#### TYPICAL APPLICATIONS

- Cup and core plugs
- Starter mounting bolts
- Alternator mounting bolts
- Oil pan bolts
- Intake manifold bolts
- Drive shaft bolts
- Pulley bolts
- Valve cover bolts and more.....

## SETTING TIME (68°F/20°C, 65% R.H.)

Substrate	Set time/Full cure
Steel	15 min/24 hrs
Brass	15 min/24 hrs
Zn Dichromate	20 min/24 hrs
Stainless Steel	20 min/24 hrs

## PERFORMANCE OF CURED MATERIALS

Bond strength after 24 hours at 20°C to 25°C on steel nuts and bolts

	Average Value	Range
Breakaway Torque	70 in. lbs.	60-100 in. lbs.
Prevailing Torque	36 in. lbs.	20-40 in. lbs.

## CURING PERFORMANCE

The gap of the bond line will affect set speed. Smaller gaps tend to increase the speed. Activators can be applied to improve set speed but may also impair overall adhesive performance.

## CHEMICAL RESISTANCE

Shear strength on steel after 500 hours.

Solvent	%Strength Retained
Motor Oil	100
Unleaded Gasoline	95
Trichloroethane	100
Brake Fluid	100
Ethanol	100
Acetone	100
Water/Glycol Mix	80

## GENERAL INSTRUCTIONS

Surfaces to be bonded should be clean and dry and free of grease.

Product should be applied in enough quantity to fill all engaged threads. The product performs best in thin bond gaps. Very large gaps may create gaps, which will affect the cure speed and overall strength. Good contact is essential. An adequate bond develops in 15 to 45 minutes and maximum strength is attained in 24 hours.

**This product is not recommended for use in pure oxygen environments and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.**

This product is not designed for plastics, particularly thermoplastics where stress cracking of the plastic could result. It is recommended to confirm compatibility of the product with all substrates prior to use.

## STORAGE AND SHELF LIFE

*Dynatex® Blue Medium Strength Threadlocker Gel* should ideally be stored in a cool, dry location in unopened containers. Product can be refrigerated for improved shelf life but should be brought back to room temperature before use. DO NOT store within 1 meter (4 feet) of roofline of the warehouse or storage building. *Dynatex® Blue Medium Strength Threadlocker Gel* has a shelf life of 12 months from date of shipment

## USERS PLEASE READ

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made.

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**Dynatex®** A division of Accumetric, LLC

**Dynatex**  
350 Ring Road  
Elizabethtown  
Kentucky 42701 USA  
(800) 999-2937  
TEL (270) 769-5557  
FAX (270) 769-6418  
*Outside U.S.*  
TEL +1(270) 769-5557  
FAX +1(270) 769-6418

**Accumetric Asia Pacific, LTD**  
18 Kitpanit Bldg. 5<sup>th</sup> Floor  
#502 Patpong Road  
Suriyawong, Bangrak  
Bangkok, 10500 Thailand  
TEL (662) 634-3060  
FAX (662) 634-3066

Email: sales@dynatexinc.com  
Website: www.dynatexinc.com