



Threadlocker Guide

Threadlockers significantly increase the reliability of threaded fasteners. Liquid fills gaps between threads to help form solid, unitized assemblies. They help prevent fasteners from loosening due to vibration and protect against rust and corrosion. Depending on the formula, threadlockers can be primerless and oil tolerant.

| Color | Strength Level | Disassembly | Removable With | Full Cure Time | Optium Temp. Ranges | For Fastener Diameter |
|--------|----------------|-------------|---------------------|----------------|---------------------|----------------------------|
| Purple | Low | Removable | Hand Tools | 24 Hour | -65° to 300°F | Up to 1/4" (6mm) |
| Green | Medium | Removable | Hand Tools | 24 Hour | -65° to 300°F | Up to 1/2" (12mm) |
| Blue | Medium | Removable | Hand Tools | 24 Hour | -65° to 300°F | 1/4" to 3/4" (6mm to 22mm) |
| Red | High | Permanent* | Heat and Hand Tools | 24 Hour | -65° to 550°F | Up to 1/2" (36mm) |
| Black | High | Permanent* | Heat and Hand Tools | 24 Hour | -65° to 300°F | Larger than 1/8" |

*No threadlocker is permanent. High strength can be removed using standard hand tools following direct exposure to temperatures of 450°F.

LOCTITE *Vibra-TITE* Threadlockers

Primerless Threadlockers—Allow you to apply threadlocking material without using priming activators.

Threadlockers—Help prevent damage to fasteners by sealing air gaps to stop fasteners from loosening. Primers are often suggested when using threadlockers to help increase adhesion to fasteners. For a selection of primers, see page 2223.

Wicking-Grade Threadlockers—Ideal for threaded assemblies, these low viscosity threadlockers flow or wick themselves onto threads. Meet MIL-S-46163A for existing designs. 49CF71 also meets ASTM D 5363 for new design.

HIGH LUBRICITY

High-strength formula with increased lubricity reduces friction and achieves proper clamp load, even when exposed to vibration. Use for permanent applications on large metal fasteners over 7/8" dia.

PLASTIC FASTENER

Low-strength and fast-curing threadlocker can be used as a tamperproofing agent for screw heads.

STICK

Semisolid stick formula won't spill or leak.

TAPE

Offers convenience with no mess. Works with 3 wraps on threaded bolts every time.



**Purple
2VZC3**



**Blue
5HYH7**



**Green
49CF71**



**Red
49CF49**



**Plastic Fastener
2VZD1**



**Stick
3UU58**



**Tape
5HYJ1**

| Threadlocker Color | Threadlocker Classification | Size | Threadlocker Container | Begins to Harden | Series | Temp. Range | Brand | Item No. |
|--|-------------------------------|---------|------------------------|------------------|---------------|---------------|------------|----------|
| Low-Strength | | | | | | | | |
| Purple | Threadlocker | 0.5 mL | Capsule | 10 min | 222 | -65° to 300°F | Loctite | 2VZC3 |
| | | 10 mL | Bottle | 20 min | 222MS | -65° to 300°F | Loctite | 5E212 |
| | | 50 mL | Bottle | 10 min | 222MS | -65° to 300°F | Loctite | 5E213 |
| | | 250 mL | Bottle | 4 min | 111 | -60° to 300°F | Vibra-Tite | 49CF74 |
| Medium-Strength | | | | | | | | |
| Blue | Primerless Threadlocker | 10 mL | Bottle | 5 min | 243 | -65° to 360°F | Loctite | 5HYH7 |
| | | 50 mL | Bottle | 5 min | 243 | -65° to 360°F | Loctite | 5HYH5 |
| | | 250 mL | Bottle | 4 min | 122 | -60° to 300°F | Vibra-Tite | 49CF38 |
| | Threadlocker | 0.5 mL | Capsule | 5 min | 242 | -65° to 300°F | Loctite | 2VZC4 |
| | | 10 mL | Bottle | 5 min | 242 | -65° to 300°F | Loctite | 5A228 |
| | | 50 mL | Bottle | 5 min | 242 | -65° to 300°F | Loctite | 2A269 |
| Green | Wicking Grade Threadlocker | 250 mL | Bottle | 4 min | 121 | -60° to 300°F | Vibra-Tite | 49CJ64 |
| | | 10 mL | Bottle | 20 min | 290 | -65° to 300°F | Loctite | 5E216 |
| | | 50 mL | Bottle | 20 min | 290 | -65° to 300°F | Loctite | 5E217 |
| 250 mL | Bottle | 4 min | 150 | -60° to 300°F | Vibra-Tite | 49CF71 | | |
| Medium-Strength, Removable With Hand Tools | | | | | | | | |
| Blue | Primerless Threadlocker | 250 mL | Bottle | 5 min | 243 | -65° to 360°F | Loctite | 5HYH6 |
| | | 250 mL | Bottle | 10 min | 242 | -65° to 300°F | Loctite | 4KL40 |
| High-Strength | | | | | | | | |
| Red | Primerless Threadlocker | 10 mL | Bottle | 10 min | 263 | -65° to 360°F | Loctite | 5HYH9 |
| | | 50 mL | Bottle | 10 min | 263 | -65° to 360°F | Loctite | 5HYJ0 |
| | Threadlocker | 0.5 mL | Capsule | 10 min | 262 | -65° to 300°F | Loctite | 2VZC6 |
| | | 0.5 mL | Capsule | 10 min | 271 | -65° to 300°F | Loctite | 2VZC7 |
| | Threadlocker | 10 mL | Bottle | 4 min | 2760 | -65° to 300°F | Loctite | 1LLP8 |
| | | 10 mL | Bottle | 10 min | 262 | -65° to 300°F | Loctite | 5E214 |
| | | 10 mL | Bottle | 10 min | 271 | -65° to 300°F | Loctite | 5A230 |
| | | 10 mL | Bottle | 60 min | 277 | -65° to 300°F | Loctite | 3KE48 |
| | | 50 mL | Bottle | 10 min | 262 | -65° to 300°F | Loctite | 5E215 |
| | | 50 mL | Bottle | 10 min | 271 | -65° to 300°F | Loctite | 5A231 |
| | | 50 mL | Bottle | 60 min | 272 | -65° to 450°F | Loctite | 4KL51 |
| | | 50 mL | Bottle | 60 min | 277 | -65° to 300°F | Loctite | 3KE49 |
| | | 250 mL | Bottle | 4 min | 131 | -60° to 300°F | Vibra-Tite | 49CF49 |
| | | 250 mL | Bottle | 9 min | 140 | -60° to 300°F | Vibra-Tite | 49CF63 |
| 250 mL | | Bottle | 9 min | 137 | -60° to 450°F | Vibra-Tite | 49CF57 | |
| 250 mL | | Bottle | 9 min | 146 | -60° to 300°F | Vibra-Tite | 49CF66 | |
| High-Strength, Removable With Heat and Hand Tools | | | | | | | | |
| Red | Primerless Threadlocker | 250 mL | Bottle | 10 min | 263 | -65° to 360°F | Loctite | 5HYH8 |
| | | 250 mL | Bottle | 10 min | 271 | -65° to 300°F | Loctite | 4KL50 |
| | | 250 mL | Bottle | 60 min | 272 | -65° to 450°F | Loctite | 4KL52 |
| High Lubricity Threadlocker | | | | | | | | |
| Black | High Lubricity Threadlocker | 50 mL | Bottle | 90 min | 2047 | -65° to 300°F | Loctite | 19L453 |
| Plastic Fastener Threadlocker | | | | | | | | |
| Blue | Plastic Fastener Threadlocker | 0.7 oz | Bottle | 1.5 min | 425 | -65° to 180°F | Loctite | 2VZD1 |
| Stick Threadlocker | | | | | | | | |
| Blue | Threadlocker | 0.32 oz | Stick | 5 min | 248 | -65° to 300°F | Loctite | 3UU58 |
| | | 0.67 oz | Stick | 5 min | 248 | -65° to 300°F | Loctite | 3UU52 |
| Red | Threadlocker | 0.32 oz | Stick | 5 min | 268 | -65° to 300°F | Loctite | 3UU56 |
| | | 0.67 oz | Stick | 5 min | 268 | -65° to 300°F | Loctite | 3UU57 |
| Threadlocker Tape | | | | | | | | |
| Medium-Strength, 1/2 in W x 260 in L | | | | | | | Loctite | 5HYJ1 |