

Loctite® Threadlocker Properties Chart

	KEY FEATURES	TYPICAL USE	PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	COLOR	VISCOSITY† (cP)	TORQUE‡ IN.-LBS. (BREAK/PREVAL)	TEMP. RANGE	CURE SPEED (STEEL @ 25°C)	AGENCY APPROVALS
Low Strength	Small Fasteners	Small screws under 1/4"	222™	21463 21464	10 ml bottle 50 ml bottle	Purple	1,200 / 5,000 Thixotropic	53 / 30	-65°F to 300°F	Fixture – 20 min. Full – 24 hrs.	N/A
	MIL-Spec	Easy removal, small screws under 1/4"	222MS™	22205 22221 22231 22241	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle	Purple	1,200 / 5,000 Thixotropic	53 / 30	-65°F to 300°F	Fixture – 10 min. Full – 24 hrs.	MIL-S-46163A for existing designs, ASTM D-5363**, NSF P1, CFIA
Removable Medium Strength	Primerless, Oil Tolerant Liquid	1/4" to 3/4" bolts with light oil contamination	243™	1330255 1329837 1329467 1329505 1330333	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Blue	1,300 / 3,000 Thixotropic	230 / 40	-65°F to 360°F	Fixture – 10 min. Full – 24 hrs.	NSF/ANSI 61, CFIA
	Semisolid Stick	1/4" to 3/4" bolts, overhead, pre-dispensed, hard-to-reach areas	248™	37684 37087	9 g stick 19 g stick	Blue	Semisolid	110* / 43	-65°F to 300°F	Fixture – 5 min. Full – 24 hrs.	CFIA
	Tape	1/4" to 3/4" bolts, overhead, pre-dispensed, hard-to-reach areas	QUICKTAPE® 249™	1372603	260" roll	Blue	Tape	74 / 47	-65°F to 300°F	Fixture – 30 min. Full – 24 hrs.	N/A
	High Temperature	High temperature, medium strength	246™	29513 29514 29515	10 ml bottle 50 ml bottle 250 ml bottle	Blue	2,600	170 / 48*	-65°F to 450°F	Fixture – 5 min. Full – 24 hrs.	N/A
	Ultra High Temperature	Ultra high temperature, medium strength for 1/2" to 3/4" bolts	2422™	1134601 1134602	30 g syringe 300 g cartridge	Blue	Paste	102 / 12	-65°F to 650°F	Fixture – 30 min. Full – 24 hrs.	N/A
	Food Compliant	For use in food and beverage applications	2046™	1186840	0.40 fl. oz. dual cartridge (12 ml)	Blue	Paste	111 / 60	-65°F to 400°F	Fixture – 90 min. Full – 24 hrs.	21 C.F.R. § 175.300
	Low Halogen/ Low Sulfur	For use in nuclear facilities	2432™	25523	50 ml bottle	Blue	300	150 / 53 (black oxide steel nuts and bolts)	-65°F to 300°F	Fixture – 30 min. Full – 24 hrs.	N/A
	MIL-Spec	Removable grade, 1/4" up to 3/4" bolts	242®	24205 24221 24231 24241 24243	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Blue	1,200 / 5,000 Thixotropic	110 / 43	-65°F to 300°F	Fixture – 5 min. Full – 24 hrs.	MIL-S-46163A for existing designs, ASTM D-5363**, NSF/ANSI 61, NSF P1, ABS, CFIA
High Strength	Primerless, Oil Tolerant Liquid	Primerless, high strength	263™	1330582 1330583 1330585 1330335 1330334	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Red	400 / 600	290 / 290*	-65°F to 360°F	Fixture – 5 min. Full – 24 hrs.	NSF/ANSI 61, CFIA
	Semisolid Stick	Up to 3/4" bolts, overhead, pre-dispensed, hard-to-reach areas	268™	37685 37686	9 g stick 19 g stick	Red	Semisolid	220* / 34	-65°F to 300°F	Fixture – 5 min. Full – 24 hrs.	CFIA
	High Temperature	High temperature applications	272™	27240 27270 27285	50 ml bottle 250 ml bottle 1 liter bottle	Red	9,500	200 / 220	-65°F to 450°F	Fixture – 1 hr. Full – 24 hrs.	CFIA
	Ultra High Temperature	Ultra high temperature, high strength for 1/2" to 3/4" bolts	2620™	1138282	30 g syringe	Red	Paste	161 / 10	-65°F to 650°F	Fixture – 30 min. Full – 24 hrs.	N/A
	High Lubricity (Large Bolts)	Large bolts >7/8": High lubricity delivers higher clamp load than 277™	2047™	1134607	50 ml bottle	Black	2,000 / 12,000 Thixotropic	375 / 80	300°F	Fixture – 90 min. Full – 24 hrs.	N/A
	MIL-Spec	High strength locking, up to 3/4" bolts	262™	26205 26221 26231 26241 26243	0.5 ml capsule 10 ml tube 50 ml bottle 250 ml bottle 1 liter bottle	Red	1,800 / 5,000 Thixotropic	189 / 275	-65°F to 300°F	Fixture – 10 min. Full – 24 hrs.	MIL-S-46163A for existing designs, ASTM D-5363**, NSF P1, ABS, CFIA
	MIL-Spec	High strength for fasteners up to 1" diameter	271™	27105 27121 27131 27141 27143	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Red	500	250 / 275	-65°F to 300°F	Fixture – 10 min. Full – 24 hrs.	MIL-S-46163A for existing designs, ASTM D-5363**, UL Classified for U.S., CFIA
	MIL-Spec	Permanent for large bolts >7/8"	277™	21434 27731 27741 27743	10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Red	7,000	275 / 275	-65°F to 300°F	Fixture – 60 min. Full – 24 hrs.	MIL-S-46163A for existing designs, ASTM D-5363**
Wicking Grade	MIL-Spec	Medium/high strength, wicking grade for preassembled parts and weld sealing	290™	29005 29021 29031 29041 29043	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Green	25 / 55	90 / 260	-65°F to 300°F	Fixture – 20 min. Full – 24 hrs.	MIL-S-46163A for existing designs, ASTM D-5363**, NSF/ANSI 61, NSF P1, CFIA
	MIL-Spec	Low strength wicking grade for preassembled fasteners under 1/4"	220™	37388 39186 22041	10 ml bottle 50 ml bottle 250 ml bottle	Blue	20	85 / 170	-65°F to 300°F	Fixture – 6 min. Full – 24 hrs.	MIL-S-46163A for existing designs, ASTM D-5363**, CFIA
Plastic	Plastic Fasteners	For small metal and plastic fasteners and tamper-proofing	425™ ASSURE™	42540 42561	20 g bottle 1 lb. bottle	Blue	80	4 / 2	-65°F to 180°F	Fixture – 1.5 min. Full – 24 hrs.	N/A

ITEMS IN RED = Source's PICK or NEW

= Indicates Worldwide Availability

* Break loose value.

** For new designs.

† Brookfield RVT spindle 3.20 RPM/25 RPM.

‡ M10 steel nuts and bolts.