

# LOCTITE® THREADLOCKER PROPERTIES CHART

KEY FACTORS	KEY FEATURES	PRODUCT	ITEM NUMBER	PACKAGE TYPE & SIZE	COLOR	TYPICAL USE	VISCOSITY (cP)†	TORQUE‡ in.-lbs. (break/prevail)	TEMP. RANGE	CURE SPEED (STEEL @ 25°C)	AGENCY APPROVALS
LOW STRENGTH	Small Fasteners	222™	21463 21464	10 ml bottle 50 ml bottle	Purple	Small screws under 1/4"	1,200/5,000 Thixotropic	53/30	-65°F to 300°F	Fixture – 10 min. Full – 24 hrs.	N/A
	REMOVABLE STRENGTH	General Purpose/ Primerless	243™	1330255 1329837 1329467 1329505 1330333	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Blue	1/4" to 3/4" bolts, primerless, medium strength	1,300/3,000 Thixotropic	106/26	-65°F to 360°F	Fixture – 10 min. Full – 24 hrs.
General Purpose Tape		QuickTape® 249™	1372603	260" Roll	Blue	Removable strength, 1/4" to > 2", pre-applied	Tape	74/47	-65°F to 300°F	Fixture – 30 min. Full – 24 hrs.	CFIA
General Purpose Semisolid Stick		248™	37684 37087	9 g stick 19 g stick	Blue	1/4" to 3/4" bolts, overhead, pre-dispensed, hard-to-reach areas, primerless	Semisolid	226*/36	-65°F to 300°F	Fixture – 5 min. Full – 24 hrs.	CFIA
High Temperature		246™	29513 29514 29515	10 ml bottle 50 ml bottle 250 ml bottle	Blue	High temperature, medium strength	2,600	170*/48	-65°F to 450°F	Fixture – 5 min. Full – 24 hrs.	N/A
Ultra-High Temperature		2422™	1134601 1134602	30 g syringe 300 g cartridge	Blue	Ultra-high temperature, medium strength for 1/2" to 3/4" bolts	Paste	102/12	-65°F to 650°F	Fixture – 30 min. Full – 24 hrs.	N/A
HIGH STRENGTH		General Purpose/ Primerless	263™	1330582 1330583 1330585 1330335 1330334	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Red	Primerless, high strength	400/600	275/290	-65°F to 360°F	Fixture – 10 min. Full – 24 hrs.
	General Purpose Semisolid Stick	268™	37685 37686	9 g stick 19 g stick	Red	Up to 3/4" bolts, overhead, pre-dispensed, hard-to-reach areas, primerless	Semisolid	311*/83	-65°F to 300°F	Fixture – 5 min. Full – 24 hrs.	CFIA
	High Temperature	272™	27240 27270 27285	50 ml bottle 250 ml bottle 1 liter bottle	Red	High temperature applications	9,500	200/220	-65°F to 450°F	Fixture – 30 min. Full – 24 hrs.	CFIA
	Ultra-High Temperature	2620™	1138282	30 g syringe	Red	Ultra-high temperature, high strength for 1/2" to 3/4" bolts	Paste	161/10	-65°F to 650°F	Fixture – 30 min. Full – 24 hrs.	N/A
	Large Bolts	277™	21434 27731 27741 27743	10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Red	Large bolts > 7/8"	7,000	275/275	-65°F to 300°F	Fixture – 60 min. Full – 24 hrs.	MIL-S-46163A for existing designs, ASTM D-5363**
	High Lubricity Large Bolts	2047™	1134607	50 ml bottle	Black	Large bolts > 7/8". High lubricity allows proper clamp load to be achieved	2,000/12,000 Thixotropic	375/80	300°F	Fixture – 90 min. Full – 24 hrs.	N/A
WICKING	Low Strength	220™	37388 39186 22041	10 ml bottle 50 ml bottle 250 ml bottle	Blue	Wicking grade for small, pre-assembled fasteners under 1/4"	20	85/170	-65°F to 300°F	Fixture – 6 min. Full – 24 hrs.	MIL-S-46163A for existing designs, ASTM D-5363**, CFIA
	General Purpose	290™	29005 29021 29031 29041 29043	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle 1 liter bottle	Green	Medium/high strength. Wicking grade for pre-assembled parts	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
PLASTIC	Plastic Fasteners	425™ Assure™	42540 42561	20 g bottle 1 lb. bottle	Blue	For small metal and plastic fasteners and tamper-proofing	80	4/2	-65°F to 180°F	Fixture – 1.5 min. Full – 24 hrs.	N/A
FOOD COMPLIANT	Processing Equipment That Can Contact Food	2046™	1186840	12 ml syringe	Blue	Strengthening/coupling agent for joints on equipment	Gel	111/60	-65°F to 400°F	Fixture – 90 min. Full Cure – 24 hrs.	FDA 21 C.F.R. 175.300
LOW HALOGEN/ LOW SULFUR	Use in nuclear facilities	2432	25523	50 ml bottle	Blue	For use on sensitive metals, like titanium	300	150/53 (black oxide steel nuts/bolts)	-65°F to 300°F	Fixture – 30 min. Full – 24 hrs.	N/A
ENHANCED HEALTH & SAFETY	Removable Strength	2400 NA	1526121 1526122	50 ml bottle 250 ml bottle	Blue	General-purpose for 1/4" to 3/4" bolts	3,070 Thixotropic	160/20	-65°F to 300°F	Fixture – 5 min. Full – 24 hrs.	N/A
	High Strength	2700 NA	1526123 1526565	50 ml bottle 250 ml bottle	Red	High strength up to 3/4" bolts	5,000 Thixotropic	300/265	-65°F to 300°F	Fixture – 5 min. Full – 24 hrs.	N/A
MIL-SPEC	Small Fasteners	222MS™	22205 22221 22231 22241	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle	Purple	Low Strength, small screws under 1/4"	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 Strength	242®	24205 24221 24231 24241	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle	Blue	Medium Strength, 1/4" to 3/4" bolts	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™ P1, ABS™, CFIA NSF™/ANSI 61
	High Strength	262™	26205 26221 26231 26241	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle	Red	High Strength, up to 3/4" bolts	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
	Low Viscosity	271™	27105 27121 27131 27141	0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle	Red	High strength for fasteners up to 1" diameter	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

\*Breakloose value †See TDS for spindle and speed test measurement \*\*For new designs Top choice product

## LOCTITE® Primers Properties Chart

‡M10 and/or 3/8 x 16 steel fasteners Worldwide availability

	PRODUCT	ITEM NO.	PACKAGE TYPE & SIZE	PHYSICAL PROPERTY	ON-PART LIFE	DRY TIME	AGENCY APPROVALS
SOLVENT-BASED	7649™ Primer	19269 38402 21347 21348 19266	1.75 fl. oz. glass bottle 1.75 fl. oz. aluminum bottle 25 g net wt. aerosol can 4.5 oz. net wt. aerosol can 1 gallon can	Liquid	30 days	30 to 70 seconds	MIL-S-22473E for existing designs, ASTM D-5363 for new designs, NSF™/ANSI 61, NSF™ P1, CFIA
SOLVENT-LESS	7088™ Primer Stick	1069258	17 g stick	Semisolid	30 days	–	–