

LOCTITE®

THREADLOCKING SOLUTIONS GUIDE

What you need to know to ensure reliable threaded assemblies



Henkel

Henkel Adhesive Technologies

RELIABILITY BEGINS HERE

A LEGACY OF PERFORMANCE

LOCTITE threadlockers have been synonymous with reliability since 1953. Today they continue to be an indispensable solution for millions of customers across every industry, constantly innovating and adapting to new challenges and applications.



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REDEFINING *RELIABILITY*



The demand for reliable operations is universal. Whether you are manufacturing products, maintaining machines and equipment, or repairing vehicles, a single loose bolt can lead to breakdowns, safety risks, increased warranty claims, and/or loss of brand reputation.

LOCTITE threadlockers are relied on throughout Original Equipment Manufacturing, Industrial Maintenance, Repair & Overhaul, and automotive aftermarket repair.

They ensure consistent performance and reduce failures by locking fasteners in place against vibration, stress and thermal expansion, extending equipment life, minimizing unplanned downtime, and increasing safety, sustainability and operator confidence.

Wherever there's a bolt under stress, proven reliability is needed – and it all starts with LOCTITE threadlockers. No matter the challenge, no matter the industry: RELIABILITY BEGINS HERE.

PIONEERING *BETTER SOLUTIONS*

THE WAY IT WAS

Mechanical locking devices
Mechanical locking devices (e.g., split-ring washers, nylon nuts) were invented to solve the common problem of loosening that occurs in most threaded assemblies. Although they were made for this purpose, they have several shortcomings:

- They loosen under vibration, thermal expansion and improper torque
- They're prone to corrosion
- They require an extensive inventory of several shapes and sizes

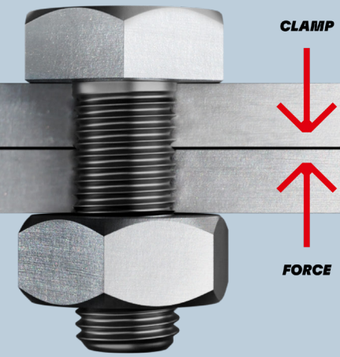
THE WAY FORWARD

LOCTITE threadlockers
LOCTITE threadlockers are designed to lock and seal threaded fasteners with liquid anaerobic adhesives. Suited and trusted for a wide range of applications, from delicate electronic components to heavy industrial equipment, LOCTITE threadlockers have dramatically increased the reliability of threaded assemblies:

- They lock nuts and bolts against vibration and thermal expansion
- They seal against corrosion and leakage
- They're suitable for all shapes and sizes of fasteners, thus reducing inventory costs



THREADED *FASTENERS*



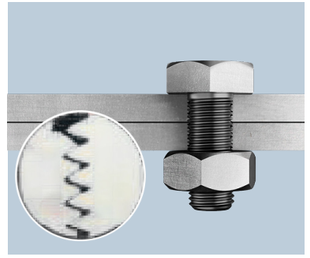
FUNCTIONS OF A THREADED ASSEMBLY

1. **Create clamp force**
2. **Maintain clamp force**
3. **Allow disassembly**

WHY DO THREADED ASSEMBLIES FAIL?

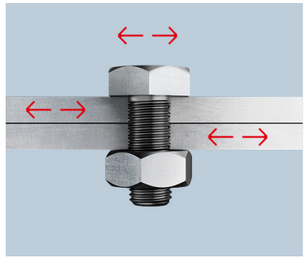
CLAMP FORCE IS NOT MAINTAINED

A. Gaps



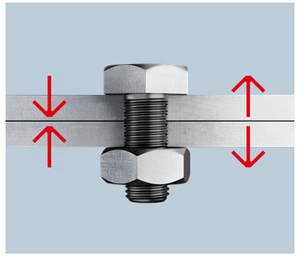
In order to make the assembly possible, nuts and bolts must have some tolerance, which creates gaps between the threads.

B. Vibration & side-to-side movement



The same gaps that allow for assembly also create space for fasteners to loosen when exposed to vibration and side-to-side movement.

C. Expansion/contraction & loosening



As parts heat up and cool down they expand and contract, and the gaps in the threads cause the threaded assembly to self-loosen.

DISASSEMBLY IS NOT ALWAYS POSSIBLE

Corroded assemblies can be difficult to take apart, which can lead to broken bolts. This failure is caused by a nut and bolt seizing together, which can be caused by:

- Corrosion (humidity, high temperatures, assembly of different metals/ galvanic corrosion)
- Galling (friction welding)



LOCTITE®

LOCKING METHODS

SHORTCOMINGS OF LOCKING DEVICES

SPLIT RING OR SPRING WASHERS

Don't ensure reliable threadlocking under dynamic loads, and increased friction reduces clamp load.



NUT WITH NYLON INSERT

More expensive than a standard nut, and provides minimal vibration resistance and increased friction, resulting in inaccurate torque.



TAB WASHERS, SPLIT PINS, CASTLE NUTS

Expensive and time-consuming, and it is often challenging to line up their components appropriately (i.e., tabs, cotter pins).



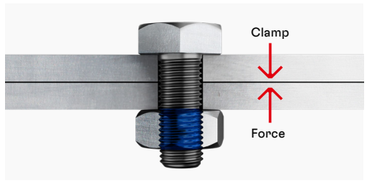
TOOTH OR RIBBED FLANGED BOLTS

Prevent self-loosening, but expensive and may damage surfaces.



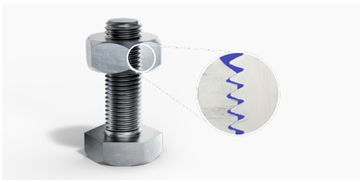
WHY USE LOCTITE THREADLOCKERS?

CLAMP LOAD RETENTION



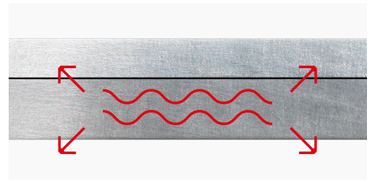
Best clamp load retention compared to all mechanical locking devices.

VIBRATION RESISTANCE



Fills 100% of the gap between threads of nut and bolt, which eliminates the root cause of vibrational loosening (see test chart below).

ENDURES THERMAL EXPANSION



Prevents movement that can lead to loosening when materials expand and contract with temperature changes.

ALLOWS DISASSEMBLY



Low and medium grades allow disassembly with standard hand tools.

CORROSION PREVENTION



By sealing the threads, threadlockers prevent the ingress of moisture, chemicals, and other corrosive agents.

ONE SIZE FITS ALL

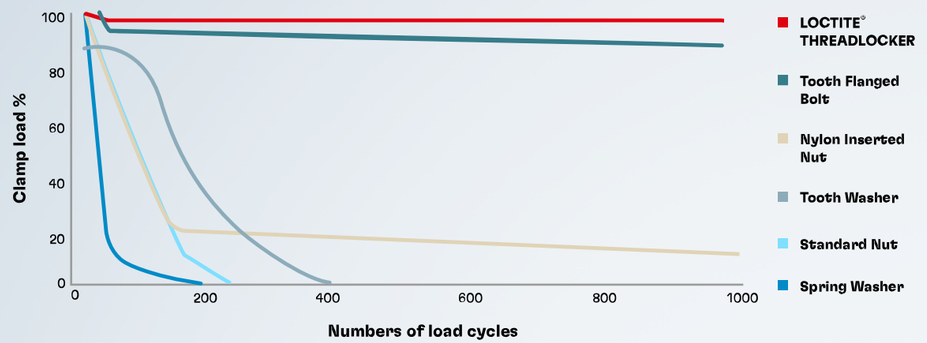


One size fits all – applicable for a wide range of fastener sizes.

LOCTITE KEEPS ASSEMBLIES SECURE WHEN VIBRATION PUTS EVERYTHING TO THE TEST

A vibration loosening test such as the Junker Machine test is a crucial part of evaluating performance in real-world applications where threaded assemblies are exposed to vibration.

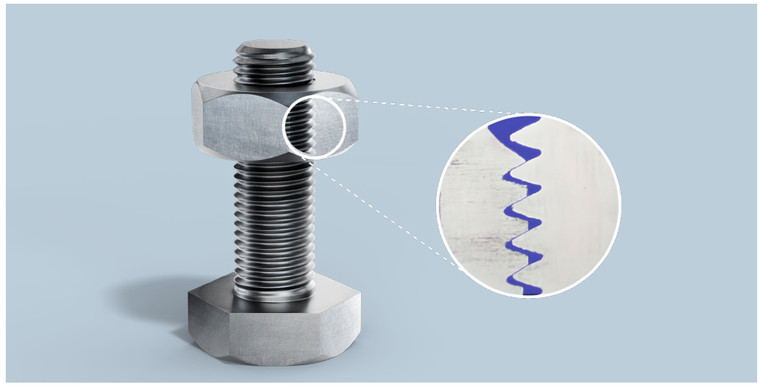
The test assesses fasteners' resistance to vibration loosening, and simulates the conditions that can cause fasteners to loosen, such as those found in engines, machinery, or other vibrating equipment.





THREADLOCKING *SOLUTIONS*

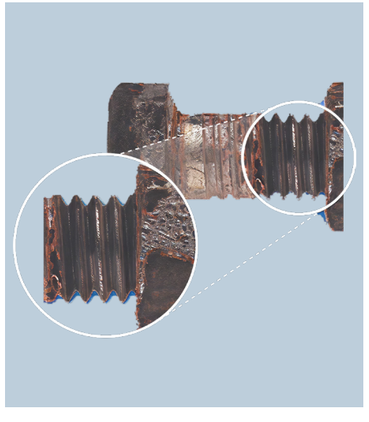
HOW DO LOCTITE THREADLOCKERS WORK?



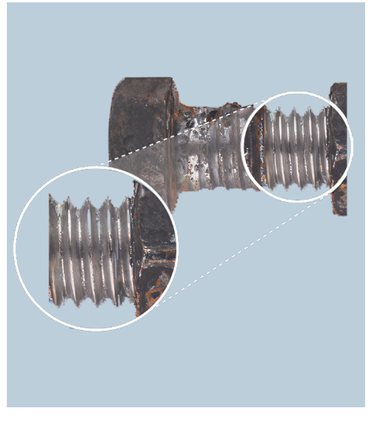
LOCTITE threadlocker between the interfacing threads.

FILL GAPS

LOCTITE threadlockers are 1-part adhesives that cure in the absence of air and in contact with active metal to form a tough thermoset plastic. They completely fill all voids between the interfacing threads, which makes the assembly a unitized component and ultimately prevents loosening.



Engagement area of rusty bolt that did NOT have LOCTITE threadlocker applied.



Engagement area of rusty bolt that DID have LOCTITE threadlocker applied.

SEAL THREADS

Another property of LOCTITE threadlockers is thread sealing. This is especially important when assembling through-bolts in an oil reservoir or cooling jacket in order to keep the fluids in and corrosion out.

HOW DO I USE A LOCTITE THREADLOCKER?

APPLICATION OPTIONS



Through-holes



Blind holes



Post-assembly

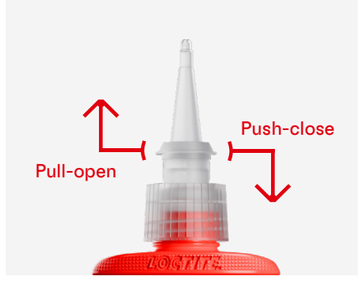


Overhead

Note: To achieve optimum performance, all parts must be clean and free of contaminants (e.g., oil, grease)

DISPENSING OPTIONS

For maximum convenience and productivity, LOCTITE threadlockers can be dispensed using LOCTITE dispensing systems.



50 ml and 250 ml push-pull nozzle for manual applications



50 ml and 250 ml hand pumps for manual applications



Integrated dispensers and valves for semi-automated applications



SURFACE PREPARATION

CLEANING

Before applying LOCTITE threadlocker, make sure your surfaces are properly cleaned and ready for application.

Here's how:

1. Apply a fast-evaporating cleaner and wipe with a lint-free cloth.
2. Wipe the cloth in one direction only, not back and forth.
3. For through holes or blind holes, apply cleaner and clear the hole with clean, dry, compressed air.
4. For nuts and bolts, wrap the cloth around the threads and turn the fastener. Clean the part until it no longer discolors the cloth.

PRIMING

WHEN SHOULD I USE LOCTITE PRIMERS?

LOCTITE threadlockers cure in the absence of air and in the presence of metal ions. When assembling metal parts with inactive surfaces, which are low in metal ions, LOCTITE primers are recommended to ensure proper performance of LOCTITE threadlockers (not required for primerless products).



INACTIVE METALS (PRIMER RECOMMENDED)			ACTIVE METALS (PRIMER OPTIONAL)	
Plated parts	Galvanized steel	Black oxide	Iron	Brass
Stainless steel	Zinc	Magnetite	Steel	Bronze
Titanium	Pure aluminum	Silver	Copper	Manganese
Anodized aluminum	Cadmium	Gold		

SPEED UP CURE

LOCTITE primers significantly speed up the cure time of LOCTITE threadlockers when assembling metal parts that are cold, or have large gaps or deep threads.

INACTIVE METAL ASSEMBLIES

When assembling metal parts with inactive surfaces, LOCTITE primers are recommended to ensure proper performance of LOCTITE threadlockers. Not required for primerless products.

KEY SELECTION FACTORS

STRENGTH

Low strength: Ideal for fasteners <¼" (6 mm). Easy disassembly using hand tools

Medium strength: Designed to be removable with standard hand tools on ¼" to ¾" fasteners

High strength: Designed to deliver high strength on fasteners. Removal may require localized heat (>550°F/260°C) and disassembly with hand tools while hot



VISCOSITY

Liquid formulas: Everyday assembly, ideal for fine threads and blind holes

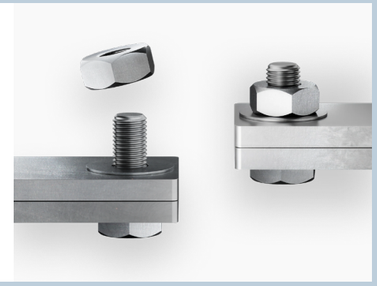
Semi-solid formulas: Pocket-friendly, ideal for overhead applications



APPLICATION METHODS

Pre-assembly: Most LOCTITE liquid threadlockers are designed to be applied at the moment parts are assembled

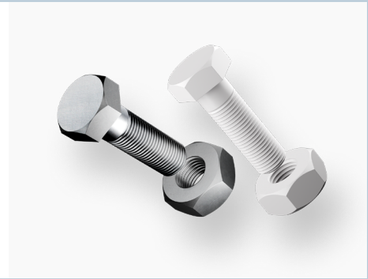
Post-assembly: Wicking-grade formula can be applied on parts that are already assembled



MATERIAL BEING ASSEMBLED

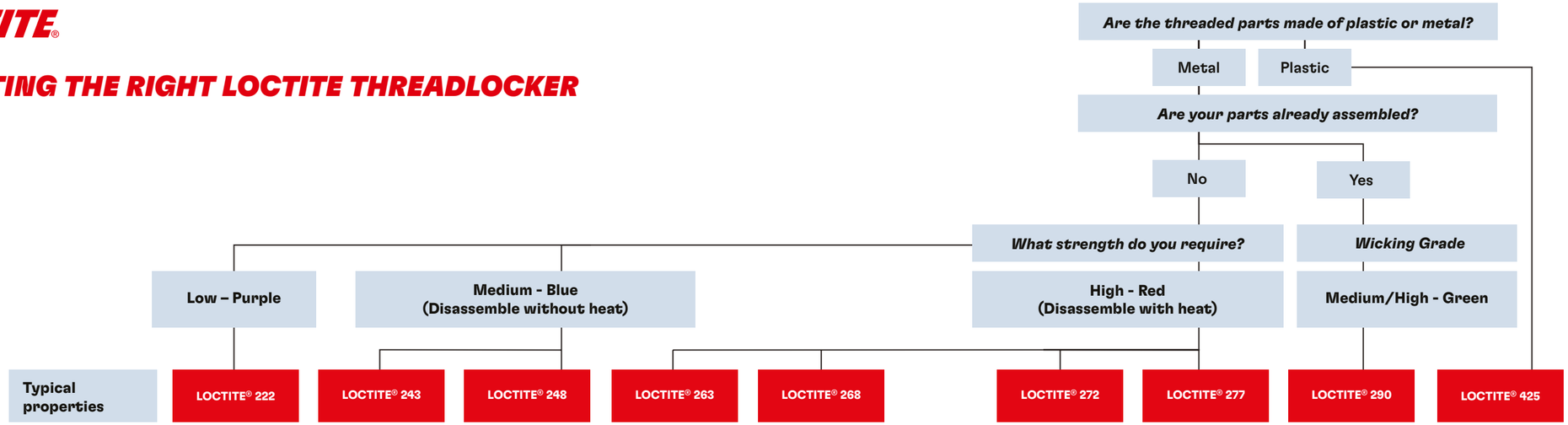
Metal-to-metal: All LOCTITE threadlockers are designed for metal-to-metal applications

Plastic-to-plastic or plastic-to-metal: LOCTITE 425 is specially designed as a fast curing, low-strength adhesive for both applications



LOCTITE

SELECTING THE RIGHT LOCTITE THREADLOCKER



Typical properties	LOCTITE® 222	LOCTITE® 243	LOCTITE® 248	LOCTITE® 263	LOCTITE® 268	LOCTITE® 272	LOCTITE® 277	LOCTITE® 290	LOCTITE® 425
Chemistry	Liquid anaerobic	Liquid anaerobic	Semisolid anaerobic	Liquid anaerobic	Semisolid anaerobic	Liquid anaerobic	Liquid anaerobic	Liquid anaerobic	Cyanoacrylate
Color	Purple	Blue	Blue	Red	Red	Red/Orange	Red	Green	Blue
Viscosity / mPa.s	1200	3000	Semisolid	500	Semisolid	9500	7000	12	60
Fastener size[1]	up to ¼"	¼" to ¾"	¼" to ¾"	¼" to 1"	¼" to 1"	¼" to 2"	¼" to 2"	¼" to ¾"	up to ¼"
Torque (in.*lbs) (BREAK/PREVAIL)	53/18	230/40	226/36	290/290	311/83	200/220	280/280	90/260	4/2
Fixture time[2]	15 min.	10 min.	5 min.	10 min.	5 min.	40 min.	45 min.	20 min.	1 min.
Cure time[3]	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.	24 hrs.
Temperature resistance[4]	–65 °F to 300 °F	–65 °F to 360 °F	–65 °F to 300 °F	–65 °F to 360°F	–65 °F to 300 °F	–65 °F to 450 °F	–65 °F to 300 °F	–65 °F to 300 °F	–65 °F to 180 °F
Product details	 Low-strength threadlocker for adjustment screws, countersunk head screws and set screws. Ideal for low-strength metals, which can break during disassembly, such as aluminum or brass.	 Medium strength, primerless liquid threadlocker. Reliably locks and seals metal fasteners up to ¾" diameter. Allows for disassembly with normal hand tools - no heat required.	 Medium strength, primerless semisolid stick threadlocker for fasteners between ¼" and ¾". Ideal for vertical and overhead applications. Allows for disassembly with normal hand tools - no heat required.	 High strength, primerless liquid threadlocker. Reliably locks and seals metal fasteners up to 1" diameter. Heat required for removal.	 High strength, primerless semisolid stick threadlocker for up to ¾" fasteners in heavy-duty applications. Ideal for vertical and overhead applications. Heat required for removal.	 High temperature resistant, high-strength liquid threadlocker. Reliably locks and seals large metal fasteners up to 2" diameter. Heat required for removal.	 High strength, high-viscosity liquid threadlocker. Reliably locks and seals large metal fasteners up to 2" diameter. Heat required for removal.	 Medium/high strength, low viscosity, wicking grade threadlocker, recommended for locking pre-assembled fasteners. Also seals porosities in welds and metal parts.	 Low strength, fast surface-curing threadlocker for plastic fasteners. Can be used as a tamper-proofing agent for the head of screws. Can be applied before or after assembly.

[1] Typical fastener size range based on common applications and performance characteristics. Actual performance may vary depending on materials, environmental conditions, and joint design.

[2] Fixture time measured using steel M10 bolts at 71.6°F (22°C).

[3] Typical cure time may vary depending on application conditions. For more precise information, refer to the product's Technical Data Sheet (TDS).

[4] Temperature resistance range reflects typical application limits. Refer to the TDS for substrate-specific performance.

BEYOND THE BOND

NOW AVAILABLE

NEW LOCTITE THREADLOCKER BOTTLES MADE WITH 50% RECYCLED PLASTIC

To help reduce virgin plastic usage and carbon emissions, LOCTITE has updated its 50 ml and 250 ml threadlocker bottles to contain 50% post-consumer recycled (PCR) plastic, for the same trusted performance with a more sustainable footprint.



INTRODUCING A SMARTER WAY TO RELIABILITY

Check out the new LOCTITE Product Selector Tool - your digital guide to finding the right prouct, every time. Scan QR code to explore.



THREADLOCKERS – TYPICAL PROPERTIES

KEY FEATURES	PRODUCT	IDH NUMBER	POPULAR PACK SIZES	COLOR	TYPICAL USE	VISCOSITY (mPa.s)†	TORQUE‡ IN.*LBS. (BREAK/ PREVAIL)	TEMP. RANGE	CURE SPEED (STEEL @ 77°F)	AGENCY APPROVALS
LOW STRENGTH										
Small fasteners	**222** ⊘	**231125 231127**	**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**
MEDIUM STRENGTH										
General purpose/ primerless	**243** ⊘	**1329837 1329467 1329505**	**10 ml bottle 50 ml bottle 250 ml 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.**	**NSF™/ANSI 61, CFIA Listed**
Semisolid stick	248	826034 462476	9 g stick 19 g stick	Blue	1/4" to 3/4" bolts, overhead, hard-to-reach areas	Semisolid	110*/43	-65°F to 300°F	Fixture – 10 min. (3 min. w/primer) Full – 24 hrs.	CFIA
High temperature	246	196508 234172 234174	10 ml bottle 50 ml bottle 250 ml bottle	Blue	High temperature, medium strength	2,600	170*/48	-65°F to 450°F	Fixture – 20 min. Full – 24 hrs.	N/A
Ultra-high temperature	2422	1134601 2946244	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 – 90 min. Full – 24 hrs.	N/A
HIGH STRENGTH										
General purpose/ primerless	**263** ⊘	**1330583 1330585 1330335**	**10 ml bottle 50 ml bottle 250 ml bottle**	**Red**	**Primerless, high strength**	**400/600**	**275/290**	**-65°F to 360°F**	**Fixture – 10 min. Full – 24 hrs.**	**NSF™/ANSI 61, CFIA**
High temperature	266	232339 232331 232327	10 ml bottle 250 ml bottle 1 liter bottle	Red-orange	High strength, high temperature	3,750/ 9,000 Thixotropic	270/75	-65°F to 450°F	Fixture – 10 min. Full – 24 hrs.	N/A
Semisolid stick	268	826036 826035	9 g stick 19 g stick	Red	Up to 3/4" bolts, overhead, pre-dispensed, hard-to-reach areas	Semisolid	220*/34	-65°F to 300°F	Fixture – 20 min. (5 min. w/primer) Full – 24 hrs.	CFIA
High temperature	272	88442 195542	50 ml bottle 250 ml 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	231089 88448 88449	10 ml bottle 50 ml bottle 250 ml 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	2,000/12,000 Thixotropic	204*/35	300°F	Fixture – 90 min. Full – 24 hrs.	N/A
Fast setting	2760	303441 303440 303442	10 ml bottle 50 ml bottle 250 ml bottle	Red	Primerless, fast setting	3,070 Thixotropic	160/20	-65°F to 300°F	Fixture – 5 min. Full – 24 hrs.	N/A
WICKING										
Low strength	220	645093 483618 231424	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** ⊘	**233731 135392 135393**	**10 ml bottle 50 ml bottle 250 ml bottle**	**Green**	**Medium/high strength. Wicking grade for pre-assembled parts**	**12**	**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**
High temperature	294	232774	50 ml bottle	Green	Wicking grade for preassembled parts	20/45	289/237	-65°F to 450°F	Fixture – 4 min. Full – 24 hrs.	N/A

KEY FEATURES	PRODUCT	IDH NUMBER	POPULAR PACK SIZES	COLOR	TYPICAL USE	VISCOSITY (mPa.s)†	TORQUE‡ IN.*LBS. (BREAK/ PREVAIL)	TEMP. RANGE	CURE SPEED (STEEL @ 77°F)	AGENCY APPROVALS
PLASTIC										
Plastic fasteners	425	135461	20 g 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
LOW HALOGEN/ LOW SULFUR										
Use in nuclear facilities	2432	219481	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
MIL-SPEC										
Small fasteners	222MS	231483 135333 135334 135335	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	230718 135354 135355 135356	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	115/53	-65°F to 300°F	Fixture – 10 min. Full – 24 hrs.	MIL-S-46163A for existing designs. ASTM D-5363**, NSF™ P1, ABSSM, CFIA
High strength	262	231922 231926 135374 135375	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 – 5 min. Full – 24 hrs.	MIL-S-46163A for existing designs. ASTM D-5363**, NSF™ P1, ABSSM, CFIA
Low viscosity	271	232532 135380 135381 88441	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

PRIMERS – TYPICAL PROPERTIES

PRODUCT	IDH NO.	PACKAGE TYPE & SIZE	COLOR	VISCOSITY	BASE	ON-PART LIFE	DRY TIME	APPLICATION	AGENCY APPROVALS
SF 7649™ Primer ⊘	**135286 231020 209715 135284**	**1.75 fl. oz. glass bottle 25 g net wt. aerosol can 4.5 oz. net wt. aerosol can 1 gallon can**	**Clear/ green**	**2**	**Acetone**	**30 days**	**30 to 70 seconds**	**Anaerobics**	**MIL-S-22473E for existing designs, ASTM D-5363 for new designs, NSF/ANSI 61, NSF P1, CFIA Listed**
SF 7088™ Primer Stick	1069258	17 g stick	Teal	semisolid	No solvent	30 days	None	Anaerobics	CFIA Listed
SF 7090™ Activator	135287 88068	1fl. oz. bottle 1 liter bottle	Dark blue	17.5	No solvent	1 hour	None	Anaerobics	N/A
SF 7471™ Primer	135285 135337 229932	1.75 fl. oz. glass bottle 4.5 oz. net wt. aerosol can 1 gallon can	Amber	2	Acetone/ Isopropanol	7 days	30 to 70 seconds	Anaerobics	MIL-S-22473E for existing designs, ASTM D-5363 for new designs, CFIA Listed

*Breakloose value **For new designs ‡M10 and/or 3/8 x 16 steel fasteners †See TDS for spindle and speed test measurement ⊘ Engineer's choice

TRAINING & SERVICES

LOCTITE offers a wide range of customized services to help you uncover potential cost savings, process improvements, chronic maintenance issues, and overall increased reliability.

MANUFACTURING

LINE SURVEY

An audit of your design and assembly process
The OEM Line Survey is a detailed manufacturing process evaluation designed to discover and document potential cost savings and process improvements. It includes recommendations for hands-on implementation and a full cost analysis for each recommendation.

IN-PLANT SEMINAR

In-depth design and assembly training
Based on the Line Survey, LOCTITE customizes full- or half-day on-site product training sessions that fit your specific wants and needs.

CUSTOMER TRAINING SCHOOL

Upskill your adhesives experts
Full- or half-day off-site training designed specifically for design, process, material and manufacturing engineers responsible for assemblies involving the use of adhesives.

DESIGNING PUMPS WITH ADHESIVES SEMINAR

Dedicated training session for pump manufacturers
Two- to four-hour training on adhesives, coatings, lubricants and the performance improvements that their implementation provides.



MAINTENANCE

PLANT SURVEY

An audit of your plant and maintenance operations
The Maintenance Plant Survey is a detailed review of your current maintenance processes, needs, challenges, and tools in use. It is used to develop a customized LOCTITE Maintenance Reliability Workshop to optimize processes and meet requirements.

MAINTENANCE RELIABILITY WORKSHOP

Hands-on training covering all skilled trades
Based on your Maintenance Plant Survey, the Maintenance Reliability Workshop reviews common failure causes, prevention options, and application recommendations for maintenance professionals.





CUSTOMER TRAINING SCHOOL

Thorough deep-dive into common challenges and solutions. Full- or half-day product training with review of common maintenance challenges and the appropriate LOCTITE product solutions.

MODULAR TRAINING

In-depth Maintenance Workshop training sessions over several visits, focusing on Threadlocking, Thread Sealing, Gasketing, and Retaining.

YOUR PARTNER *IN RELIABILITY*

Every day professionals rely on threaded assemblies to do their job. To hold fast. To keep machines running and engines humming in the industries that keep the world turning. Where reliability, efficiency and safety are non-negotiable.

LOCTITE threadlockers deliver peace of mind with proven, consistent performance, as they have for decades. So you can be confident that every application is backed by industry-leading innovation and a proven track record of success. And while our legacy speaks for itself, we also look to the future.

We are constantly searching for the smarter, the more efficient - helping our customers to innovate the next generation of solutions to tomorrow's most pressing challenges.

As you move forward, LOCTITE is there at every step, helping to simplify processes, improve performance, and reduce costs. And ensuring that your operations run smoothly and safely, whatever the future holds.

Starting with reliable, world-class solutions, we are your trusted partner, enabling superior performance, product innovation, and sustainable growth across multiple industries.



LOCTITE

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