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Technical Data Sheet

LOCTITE® 567™

June 2025

Product description

LOCTITE® 567™ provides the following product characteristics:

Technology	Acrylic
Chemical Type	Methacrylate ester
Appearance (uncured)	Smooth, creamy, off-white paste
Components	One component – requires no mixing
Viscosity	High
Cure	Anaerobic
Secondary Cure	Activator
Application	Thread sealing
Strength	Low

LOCTITE® 567™ is designed for the locking and sealing of metal tapered threads and fittings. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. LOCTITE® 567™ provides robust curing performance. The high lubricating properties of this compound prevent galling on stainless steel, aluminum and all other metal pipe threads and fittings. It not only works on active metals (e.g. brass, copper) but also on passive substrates such as stainless steel and plated surfaces. The product offers high temperature performance and oil tolerance. It tolerates minor surface contaminations from various oils, such as cutting, lubrication, anti-corrosion and protection fluids. LOCTITE® 567™ is recommended for industrial applications in the chemical processing, petroleum refining, pulp/paper, waste treatment, textile, utilities/power generation, marine, automotive, industrial equipment, gas compression and distribution industries. It is also recommended for industrial plant fluid power systems.

UL Classification

Classified by Underwriters Laboratories Inc.® MH8007 - Fire hazard is small. No flash point in liquid state. Ignition temperature 455°C. For use in devices handling gasoline, petroleum oils, natural gas (pressure not over 300 PSIG), butane and propane not exceeding 2 in. pipe size. **Note:** This is a regional approval. Please contact your local Technical Service Center for more information and clarification.

ULC Classification

Classified by Underwriters Laboratories of Canada Inc. MH27131 - An anaerobic material which contains a lubricant and sets to form a tight seal and maintain a controlled locking strength. For use in joining threaded pipe connections or other closely fitting metal parts in devices handling natural gas and methane, gasoline and petroleum oils, and propane and butane at pressures not exceeding 13,790 kPa. Ignition temperature greater than 460°C. Classed less than 10 below paraffin oil with respect to fire hazard. **Note:** This is a regional approval. Please contact your local Technical Service Center for more information and clarification.

NSF International

Certified to ANSI/NSF Standard 61 for use in commercial and residential potable water systems not exceeding 82° C. **Note:** This is a regional approval. Please contact your local Technical Service Center for more information and clarification.

Approved by the Australian Gas Association Certificate number 3207 Class III rated working pressure 2000 kPa, working temperature -10 to 205°C. **Note:** This is a regional approval. Please contact your local Technical Service Center for more information and clarification.

Hydrogen Certified Adhesive

LOCTITE® 567™ has been tested and conforms to GASTEC QA Approval requirement 214 (AR-214).
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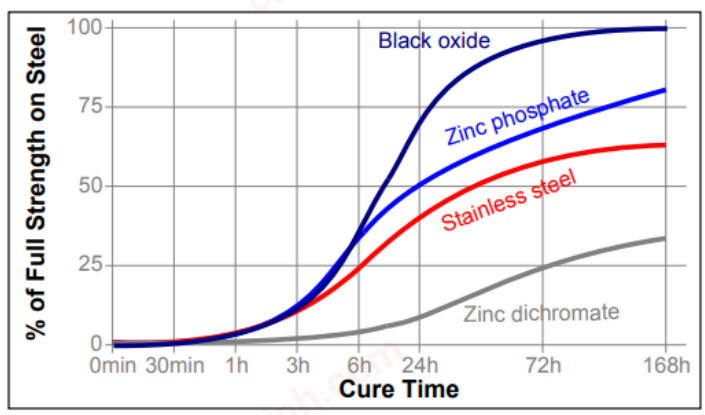
TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific gravity @ 23°C	1.1
Viscosity, Brookfield - RVF, 25°C, mPa·s (cP):	
Spindle 7, speed 2 rpm	540,000

TYPICAL CURING PERFORMANCE

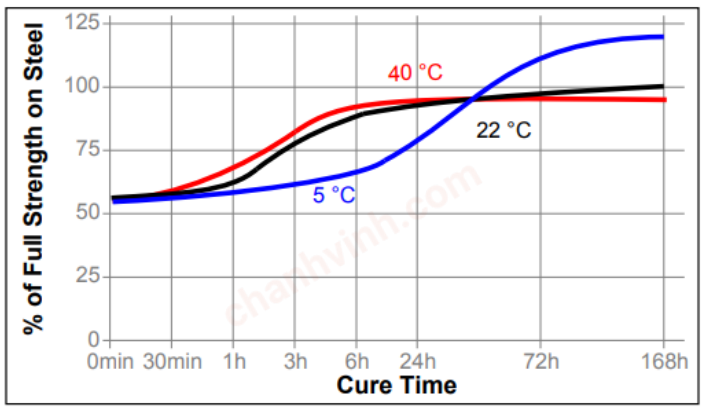
Cure Speed vs. Substrate

The rate of cure will depend on the substrate used. The graph below shows the breakaway strength developed with time on M10 black oxide bolts and steel nuts compared to different materials and tested according to ISO 10964.

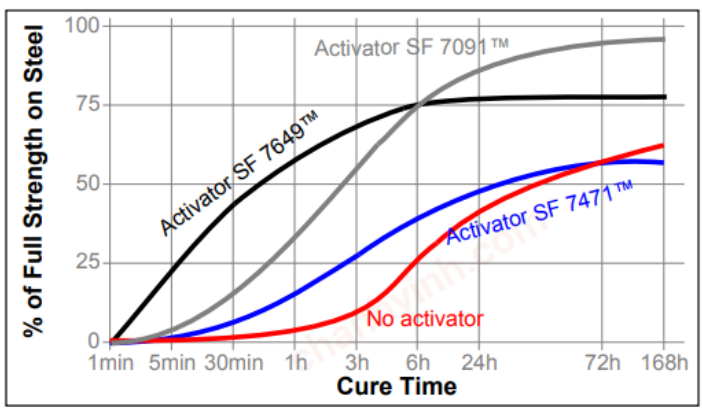


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Cure Speed vs. Temperature
The rate of cure will depend on the temperature. The graph below shows the breakloose strength developed with time at different temperatures on NPT 3/8 malleable steel tees and steel plugs, pretorqued to 27 N·m and tested according to ASTM D6396.



Cure Speed vs. Activator
Where cure speed is unacceptably long, or large gaps are present, applying activator to the surface will improve cure speed. The graph below shows the breakloose strength developed with time using Activator SF 7471™, SF 7649™ and SF 7091™ on M10 stainless steel nuts and bolts and tested according to ISO 10964.



TYPICAL PERFORMANCE OF CURED MATERIAL

Adhesive Properties

Cured for 4 hours @ 22°C

Breakaway Torque, ISO 10964:

3/8 x 24 steel bolts (grade 2) and nuts (grade 2)	N·m	≥0.3
	(lb.in)	≥(2.6)

Cured for 24 hours @ 22 °C:

Removal Torque, ASTM D 6396, Pre-torqued to 27 N·m:

3/8 NPT steel pipe tees and plugs	N·m	50
	(lb.in)	(445)

Breakaway torque, ISO 10964, unseated:

M10 black oxide bolts and mild steel nuts	N·m	12
	(lb.in)	(110)
M10 brass bolts and nuts	N·m	12
	(lb.in)	(110)
M10 zinc dichromate bolts and nuts	N·m	2.6
	(lb.in)	(22)
M10 zinc phosphate bolts and nuts	N·m	9.3
	(lb.in)	(82)
M10 stainless steel bolts and nuts	N·m	8.0
	(lb.in)	(70)
M6 black oxide bolts and steel nuts	N·m	0.9
	(lb.in)	(8)
M16 black oxide bolts and steel nuts	N·m	13
	(lb.in)	(115)
3/8 x 24 steel bolts (grade 2) and nuts (grade 2)	N·m	≥1.7
	(lb.in)	≥(15)

Prevail Torque, ISO 10964, Unseated:

M10 black oxide bolts and mild steel nuts	N·m	1.9
	(lb.in)	(17)
M10 brass bolts and nuts	N·m	2.2
	(lb.in)	(19)
M10 zinc dichromate bolts and nuts	N·m	1.4
	(lb.in)	(12)
M10 zinc phosphate bolts and nuts	N·m	1.2
	(lb.in)	(11)
M10 stainless steel bolts and nuts	N·m	1.3
	(lb.in)	(12)
M6 black oxide bolts and steel nuts	N·m	0.2
	(lb.in)	(1.3)
M16 black oxide bolts and steel nuts	N·m	2.3
	(lb.in)	(20)

Breakloose torque, ISO 10964, Pre-torqued to 5 N·m:

M10 black oxide bolts and steel nuts	N·m	17
	(lb.in)	(150)

Prevail Torque, ISO 10964, Pre-torqued to 5 N·m:

M10 black oxide bolts and steel nuts	N·m	2.3
	(lb.in)	(20)

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Cured for 1 week @ 22°C

Breakloose torque, ISO 10964, Pre-torqued to 5 N·m:

M10 zinc phosphate bolts and nuts	N·m	17
	(lb.in)	(150)

TYPICAL ENVIRONMENTAL RESISTANCE

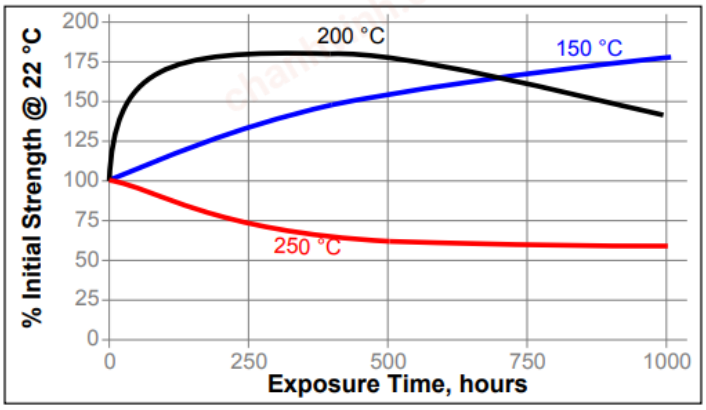
Cured for 168 hours @ 22°C

Breakloose torque, ISO 10964, Pre-torqued to 5 N·m:

M10 zinc phosphate bolts and nuts

Heat Aging

Aged at temperature indicated and tested @ 22 °C.



Cold Strength

This product has been tested to -75 °C (-100 °F). This product may work below this temperature, but has not been tested.

Chemical/solvent resistance

Aged under conditions indicated and tested @ 22°C°C.

		% of initial strength		
Environment	°C	100 h	500 h	1000 h
Motor oil (MIL-L-46152)	125	100	95	100
Unleaded gasoline	22	95	90	85
Brake fluid	22	95	100	110
Ethanol	22	95	90	85
Acetone	22	85	60	55
Water/glycol 50/50	87	90	85	95
E85 Ethanol fuel	22	95	85	75
B100 bio-diesel	22	110	105	105
DEF (AdBlue®)	22	115	125	120

GENERAL INFORMATION

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

For safe handling information on this product, consult the Safety Data Sheet (SDS).

Where aqueous washing systems are used to clean the surfaces before bonding, it is important to check for compatibility of the washing solution with the adhesive. In some cases these aqueous washes can affect the cure and performance of the adhesive.

This product is not normally recommended for use on plastics (particularly thermoplastic materials where stress cracking of the plastic could result). Users are recommended to confirm compatibility of the product with such substrates.

Direction for use

For Assembly

1. For best results, clean all surfaces (external and internal) with a LOCTITE® cleaning solvent and allow to dry.
2. If the material is an inactive metal or the cure speed is too slow, spray with LOCTITE® SF 7471™ or LOCTITE® SF 7649™ and allow to dry.
3. Apply a 360° bead of product to the leading threads ofthe male fitting, leaving the first thread free. Force the material into the threads to thoroughly fill the voids. For bigger threads and voids, adjust product amount accordingly and apply a 360° bead of product on the female threads also.
4. Using compliant practices, assemble and wrench tighten fittings in accordance with manufacturers recommendations.
5. Properly tightened fittings will seal instantly to moderate pressures. For maximum pressure resistance and solvent resistance allow the product to cure a minimum of 24hours.

For Disassembly

1. Remove with standard hand tools.
2. Where hand tools do not work because of excessive engagement length or large diameters (over 1"), apply localized heat to approximately 250 °C (480 °F). Disassemble while hot.

For Cleanup

1. Cured product can be removed with a combination of soaking in a LOCTITE® solvent and mechanical abrasion such as a wire brush.

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.
Optimal storage: 8°C to 21°C. Storage below 8°C or greater than 28°C can adversely affect product properties.
Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

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Conversions
(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² x 145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

Disclaimer
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