

## LOCTITE® 567™

June 2025

### Product description

LOCTITE® 567™ provides the following product characteristics:

<b>Technology</b>	Acrylic
Chemical Type	Methacrylate ester
Appearance (uncured)	Smooth, creamy, off-white paste
Components	One component – requires no mixing
Viscosity	High
<b>Cure</b>	Anaerobic
Secondary Cure	Activator
<b>Application</b>	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).

**Note:** This is a regional approval. Please contact your local Technical Service Center for more information and clarification.

### TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific gravity @ 23°C 1.1

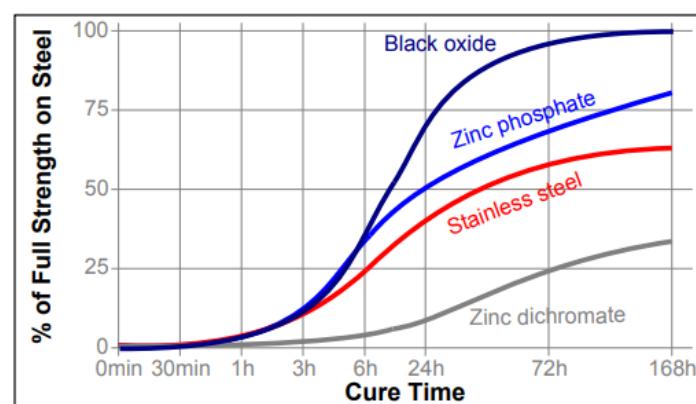
Viscosity, Brookfield - RVF, 25°C, mPa·s (cP):

Spindle 7, speed 2 rpm 540,000

### TYPICAL CURING PERFORMANCE

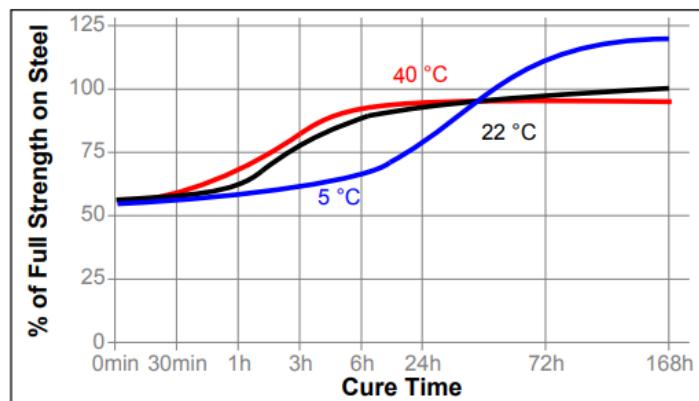
#### Cure Speed vs. Substrate

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.



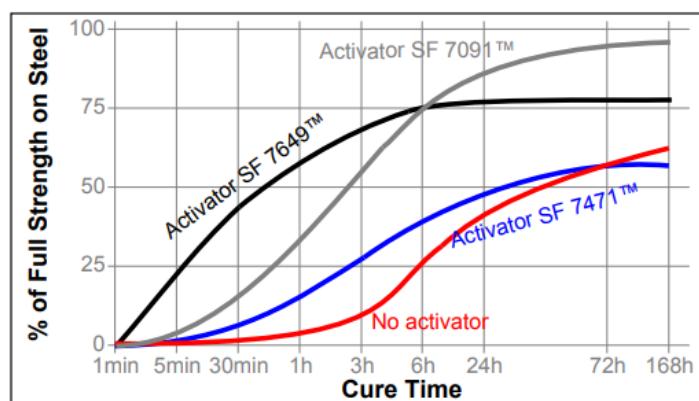
### Cure Speed vs. Temperature

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)



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

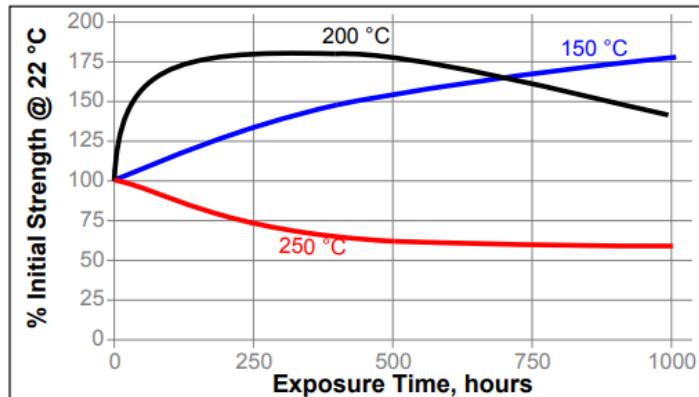
Cured for 168 hours @ 22°C

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.

Environment	°C	% of initial strength		
		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 of the 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 24 hours.

#### 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.



**Conversions**

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$   
 KV/mm x 25.4 = V/mil  
 mm / 25.4 = inches  
 $\mu\text{m} / 25.4 = \text{mil}$   
 N x 0.225 = lb  
 N/mm x 5.71 = lb/in  
 N/mm<sup>2</sup> 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**

The information provided in this Technical data sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. Any liability in respect of the information in the Technical data sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

**In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:**

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

**In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:**

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

**In case products are delivered by Henkel Corporation, or Henkel Canada Corporation, the following disclaimer is applicable:**

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

**Trademark usage**

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

**Reference 1.7**

For the most direct access to local sales and technical support visit: <https://www.henkel-adhesives.com>