

Thread Sealants



Your Application

- Prevent leaks
- Single component – quick and easy to apply
- Can be used on any size pipe fitting and seal to the burst strength of most piping systems
- Prevent thread corrosion
- Seal and secure metal pipes and fittings, filling the space between threaded metal parts and hardening to prevent leakage
- Designed for high- and low-pressure applications
- Controlled strength for ease of disassembly

Solution

ARE THE PARTS METAL OR PLASTIC?

Metal Parts

Are you working with hydraulic fittings?

Yes

No

Do you prefer a paste or a semisolid?

Paste

LOCTITE® 545™
Thread Sealant
(Hydraulic & Pneumatic)

LOCTITE® 565™
Thread Sealant

LOCTITE® 567™
Thread Sealant

| | LOCTITE® 545™ Thread Sealant (Hydraulic & Pneumatic) | LOCTITE® 565™ Thread Sealant | LOCTITE® 567™ Thread Sealant |
|----------------------------------|--|--------------------------------|--------------------------------|
| Chemistry | Anaerobic | Anaerobic | Anaerobic |
| Color | Purple | White | White |
| Viscosity (cP) | 14,000 | 300,000 | 540,000 |
| Pressure Resistance (psi) | 10,000 | 10,000 | 10,000 |
| Cure Time (hours) | 24 hours | 24 hours | 24 hours |
| Temperature Resistance | -65°F to 300°F | -65°F to 300°F | -65°F to 400°F |
| Recommended Primer | SF 7088™, SF 7649™ or SF 7471™ | SF 7088™, SF 7649™ or SF 7471™ | SF 7088™, SF 7649™ or SF 7471™ |

Product Description

LOCTITE® 545™ Thread Sealant

Recommended for fine threaded fittings as used in hydraulic and pneumatic installations and small fittings in general.

ABS Approved.
CFIA Listed.

| P/N | Package Size |
|-------|---------------|
| 54505 | 0.5 ml tube |
| 32429 | 10 ml bottle |
| 54531 | 50 ml bottle |
| 54541 | 250 ml bottle |

LOCTITE® 565™ Thread Sealant

A general-purpose instant sealant for tapered and straight/ tapered fittings.

CSA 3319-81 and 3319-01.
UL MH007(N).

NSF/ANSI 61 Certified.
ULC-Canada Approved.
CFIA Listed.

| P/N | Package Size |
|-------|------------------|
| 56507 | 6 ml tube |
| 56531 | 50 ml tube |
| 56541 | 250 ml tube |
| 56571 | 300 ml cartridge |
| 56543 | 1 liter bottle |
| 56566 | 10 liter pail |

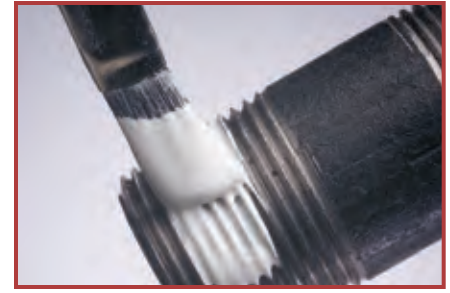
LOCTITE® 567™ Thread Sealant

A general-purpose instant sealant for tapered and straight/ tapered fittings. Rated to 400°F.

UL MH007(N).
NSF/ANSI 61 Certified.

ULC-Canada Approved.
CFIA Listed.

| P/N | Package Size |
|---------|----------------------------|
| 2087068 | 6 ml tube |
| 2087067 | 50 ml tube |
| 2087069 | 250 ml tube |
| 2087072 | 350 ml brush-top container |
| 2087073 | 1 liter bottle |



Plastic

Semisolid

LOCTITE® 561™ Pipe Sealant with PTFE

MR 5438™

| Anaerobic | Non-Anaerobic |
|--------------------------------|-------------------|
| White | White |
| Semisolid | 90,000 to 110,000 |
| 10,000 | 5,000 |
| 24 hours | 24 hours |
| -65°F to 300°F | -65°F to 300°F |
| SF 7088™, SF 7649™ or SF 7471™ | N/A |

LOCTITE® 561™ Pipe Sealant with PTFE

Semisolid stick form is convenient, portable and less messy. Formulated for fast, reliable curing on metal, tapered pipe threads and fittings. Provides high pressure sealing and withstands continuous operating temperatures of -65°F to 300°F (-54°C to 150°C). **NSF/ANSI 61 Certified.**

P/N Package Size
37127 19 g stick

LOCTITE® MR 5438™ White Threaded Plastic Pipe Sealant

Recommended for use on threaded plastic fittings carrying hot or cold water, i.e., industrial and agricultural plastic water pipe systems, or drainage systems.

P/N Package Size
1537780 16 oz. brush-top can

WHEN SHOULD A LOCTITE® PRIMER BE USED?

LOCTITE® anaerobic thread sealants cure (1) in the absence of air, and (2) in the presence of metal ions. When assembling inactive metal parts – which are low in metal ions – use of a LOCTITE® Primer is strongly recommended to ensure proper performance.

HELPFUL HINTS

| INACTIVE METALS (PRIMERS RECOMMENDED) | | ACTIVE METALS (PRIMERS OPTIONAL) |
|--|---------------------------------|----------------------------------|
| PLATED PARTS | SILVER | IRON |
| ANODIZED ALUMINUM (ALODINE®, IRIDITE™) | GOLD | PLAIN STEEL |
| TITANIUM | ZINC | COPPER |
| STAINLESS STEEL | PURE | BRASS |
| GALVANIZED STEEL | ALUMINUM† | BRONZE |
| MAGNETITE STEEL | CADMIUM | MANGANESE |
| INCONEL™ | MAGNESIUM | MONEL™ |
| NICKEL | NATURAL OR CHEMICAL BLACK OXIDE | KOVAR™ |

Primers also help speed up cure rates. Fixture time can be reduced from several hours to minutes, allowing faster assembly and production throughput.

LOCTITE® primers are also recommended when assembling metal parts that are cold, have large gaps or deep threads.

NOTE: Using a primer will decrease ultimate bond strength.



THREAD SEALING PREP STEPS

- Clean parts with LOCTITE® SF 7070™ ODC-Free Cleaner & Degreaser before applying thread sealant.
- If the parts were in contact with aqueous washing solutions or cutting fluids, which leave a protective layer on the surface, wash with hot water before use.
- If the thread sealant will be applied below 40°F, pretreat parts with LOCTITE® SF 7649™ Primer.

HELPFUL HINTS

† Pure aluminum is an inactive metal. Alloys of aluminum containing copper are considered active metals.

Thread Sealants



LOCTITE® Liquid Anaerobic Thread Sealant Properties Chart

| | LOCTITE® PRODUCT | ITEM NUMBER | PACKAGE TYPE & SIZE | TYPICAL USE | COLOR & APPEARANCE | VISCOSITY (cP) | TEMPERATURE RANGE | PRESSURE RESISTANCE (psi) | RECOMMENDED PRIMER | AGENCY APPROVALS |
|-----------------------|------------------|---|---|---|--------------------|----------------------------|-------------------|---------------------------|--------------------------------|--|
| GENERAL-PURPOSE | 561™ | 37127 | 19 g stick | General-purpose, portable, overhead | White Paste | Semisolid | -65°F to 300°F | 10,000 | SF 7088™, SF 7649™ or SF 7471™ | UL Classified for U.S., CFIA Listed, NSF/ANSI 61 |
| | 565™ | 56507 56531 56541 56571 56543 56566 | 6 ml tube 50 ml tube 250 ml tube 300 ml cartridge 1 liter bottle 10 liter pail | Controlled strength | White | 300,000 | -65°F to 300°F | 10,000 | SF 7088™, SF 7649™ or SF 7471™ | CSA International, UL Classified for U.S., NSF/ANSI 61, CFIA Listed, ULC Classified for Canada |
| | 577™ | 2068749 2068748 | 50 ml tube 250 ml tube | Medium strength, coarse threads | Yellow | 24,000/80,000 Thixotropic | -65°F to 300°F | 10,000 | SF 7088™, SF 7649™ | N/A |
| HIGH TEMPERATURE | 567™ | 2087068 2087067 2087069 2087072 2087073 | 6 ml tube 50 ml tube 250 ml tube 350 ml brush-top container 1 liter bottle | For stainless steel and all other metal fittings | White | 540,000 | -65°F to 400°F | 10,000 | SF 7088™, SF 7649™ or SF 7471™ | UL Classified for U.S., ABS, CFIA Listed, NSF/ANSI 61, ULC Classified for Canada |
| | 5770™ | 1138284 1138281 | 50 ml tube 250 ml tube | High temperature | Off-White Paste | Paste | -65°F to 530°F | N/A | SF 7088™, SF 7649™ | N/A |
| | 592™ | 59214 59231 59241 59243 | 6 ml tube 50 ml tube 250 ml tube 1 liter bottle | Medium strength | White | 350,000 | -65°F to 400°F | 10,000 | SF 736™ | CFIA Listed |
| HYDRAULIC & PNEUMATIC | 545™ | 54505 32429 54531 54541 | 0.5 ml capsule 10 ml bottle 50 ml bottle 250 ml bottle | Pneumatic hydraulic sealant, no fillers | Purple | 14,000 | -65°F to 300°F | 10,000 | SF 7088™, SF 7649™ or SF 7471™ | ABS, CFIA Listed |
| | 5452™ | 1265769 1265770 | 50 ml tube 250 ml tube | Pneumatic hydraulic sealant, no fillers | Purple | 29,000/200,000 Thixotropic | -65°F to 300°F | 10,000 | SF 7088™, SF 7649™ | N/A |
| | 569™ | 56931 56941 | 50 ml bottle 250 ml bottle | Original hydraulic sealant | Brown | 400 | -65°F to 300°F | 10,000 | SF 7088™, SF 7649™ | CFIA Listed |
| LOW HALOGEN | 580™ | 58031 | 50 ml tube | Low halogen, low sulfur, PTFE-free | White | 600,000 | -65°F to 300°F | 10,000 | N/A | N/A |
| | 5772™ | 25524 | 50 ml bottle | Low halogen, low sulfur, medium strength, fast cure | Yellow | 7,500 | -65°F to 300°F | 10,000 | N/A | N/A |
| | 5802™ | 1313319 | 50 ml tube | Low halogen, high purity, medium strength, high viscosity | Off-White | Paste | -65°F to 300°F | 10,000 | N/A | N/A |
| CHEMICAL RESISTANCE | 554™ | 25882 55441 | 10 ml bottle 250 ml bottle | Refrigerant sealant, high strength | Red | 2,500 | -65°F to 300°F | 10,000 | SF 7088™, SF 7649™ or SF 7471™ | CFIA Listed |

ITEMS IN RED = Source's PICK or NEW

🌐 = Indicates Worldwide Availability