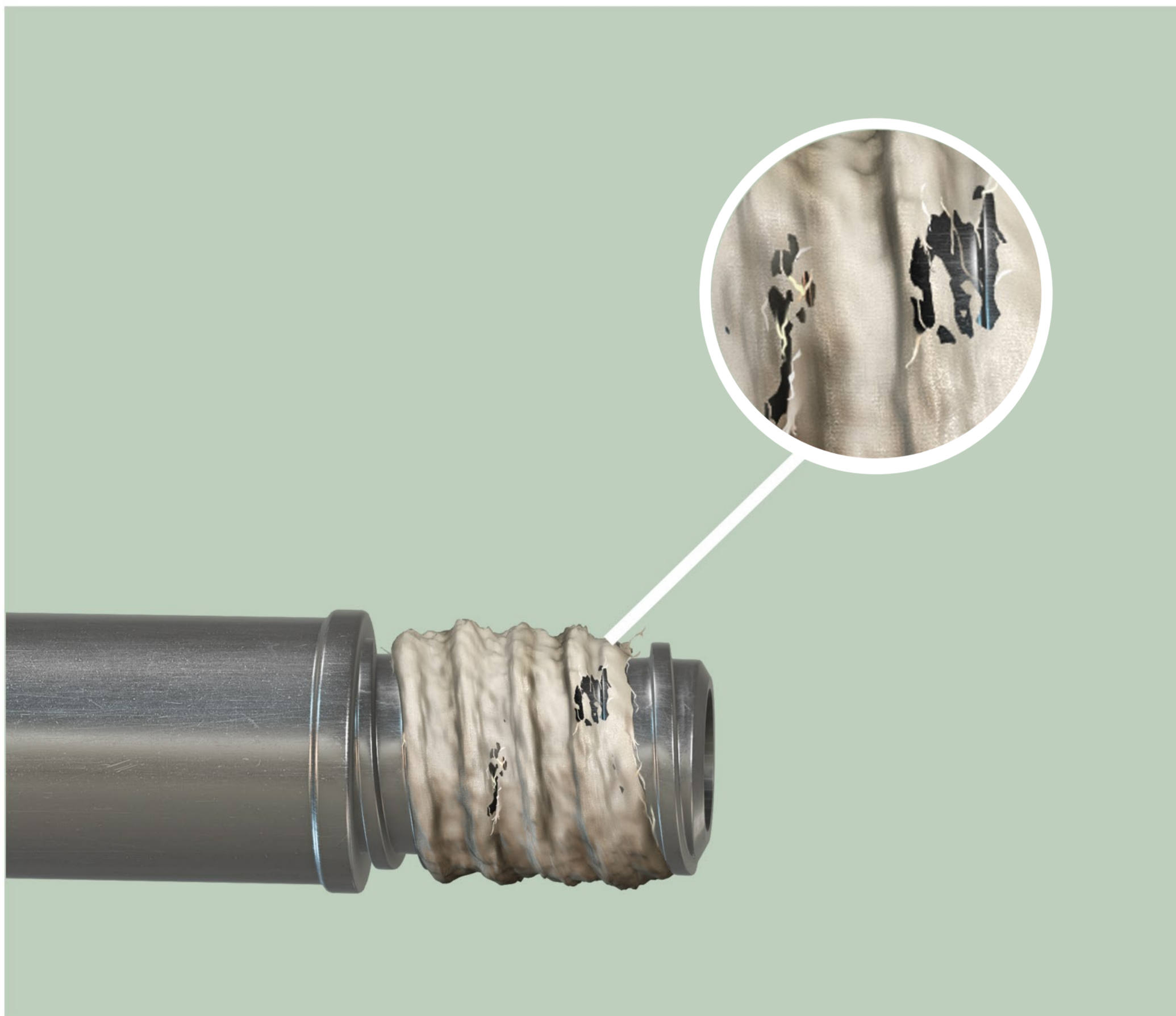




THREAD SEALANTS **PRODUCT** **GUIDE**

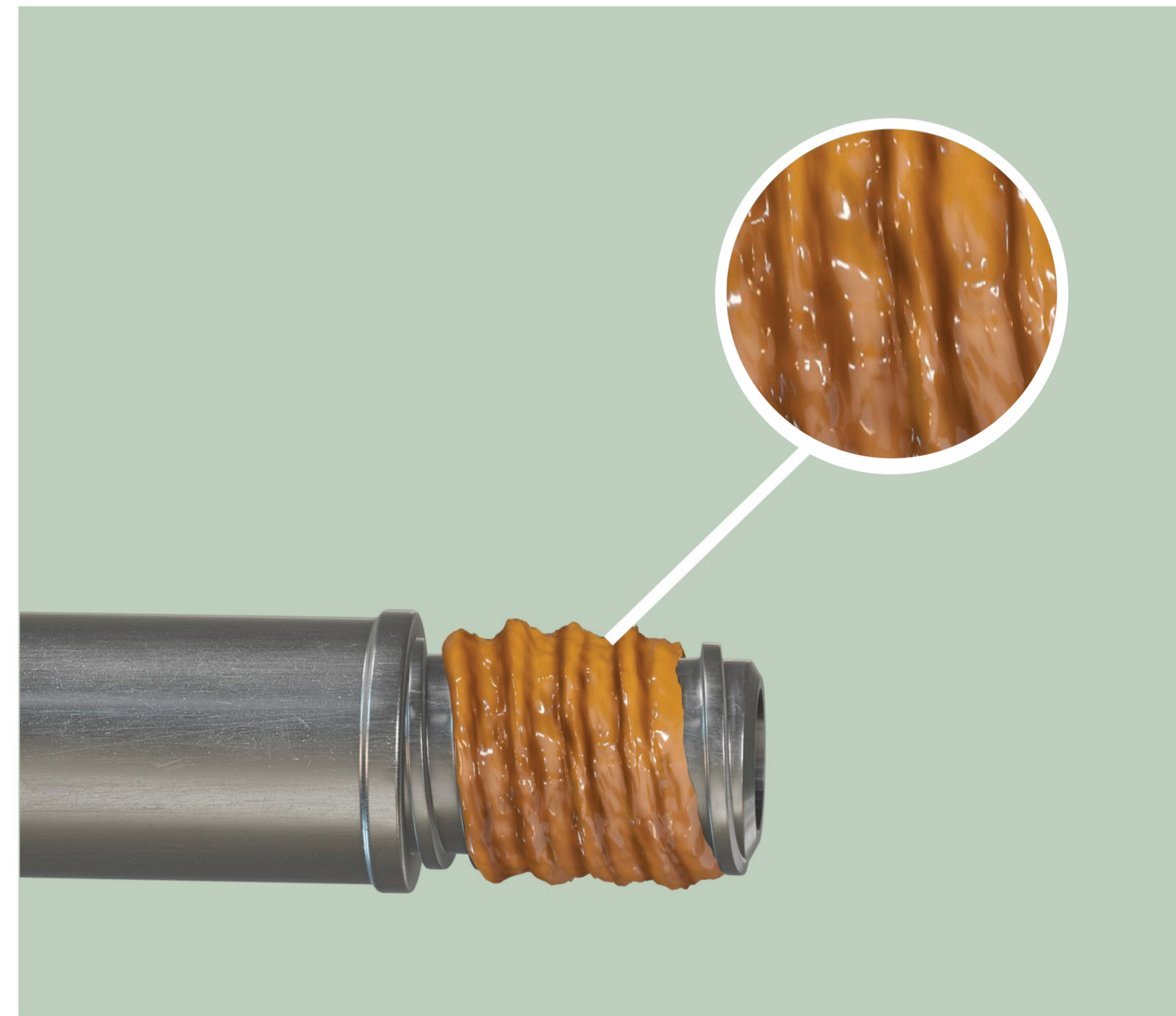


LEAKS CAUSE DOWNTIME. LIQUID THREAD SEALANTS PREVENT THEM.



Problem

With conventional thread sealants:
Pressurized fluids and gas can cause
costly leaks and downtime.



Solution

With liquid thread sealants: Joints
are sealed to the burst point of most
piping systems.

SEAL OUT LEAKS. SEAL IN PRODUCTIVITY.

Thread sealants fill the space between threaded parts and provide an instant, low pressure seal that prevents fluid and gas leaks which can cause costly downtime. LOCTITE® has a variety of thread sealants, and the one you need will depend on your system material and thread type.



HOW TO CHOOSE A THREAD SEALANT

Substrate

There's a LOCTITE® thread sealant for any type of piping system.

Metal

For metal-to-metal pipe connections and fittings, use LOCTITE® anaerobic thread sealants. They cure in the absence of air and by contact with metals.

Plastic

Ideal for use on threaded plastic or plastic / metal substrate combinations.

Thread Type

There are two types of threads to consider. The National Pipe Taper (NPT) seal, most widely used in the United States and Canada, which requires a lower strength thread sealant for disassembly. The British Standard Pipe Taper (BSPT), more common in other countries, requires a higher strength thread sealant in order to seal the connection properly.

Form

Thread sealants are available in a variety of forms, from liquid to paste to solid. Each is suited to different applications. Liquids are ideal for flowing into gaps in threaded connections. Pastes and solids are best for overhead applications where it's necessary to prevent drips, or an instant seal is needed.

 **Bestseller**

567™

General Purpose Paste

LOCTITE® 567™ is a general purpose thread sealant which provides an instant seal. Tolerates minor surface contaminants, rated up to 400°F operating temperature.

 **Substrate:** Metal

 **Thread Type:** Tapered, NPT and Straight

 **Form:** Anaerobic Paste



 **Bestseller**

545™

Hydraulic and Pneumatic Fittings

LOCTITE® 545™ is a pipe thread sealant designed for locking and sealing of metal pipes and fittings. It is specially formulated to offer high lubricity for easy assembly and removal. Recommended for fine threaded fittings as used in hydraulic and pneumatic installations and small fittings in general.

 **Substrate:** Metal

 **Thread Type:** Fine

 **Form:** Liquid Anaerobic





FIND THE RIGHT PRODUCT FOR YOUR APPLICATION

SUBSTRATE

Metal

- LOCTITE® 567™
- LOCTITE® 545™
- LOCTITE® 561™
- LOCTITE® 5452™




Plastic

- LOCTITE® MR 5438™

Metal Thread Sealants






567™ General Purpose

-  **Substrate:** Metal
-  **Thread Type:** Tapered, NPT and Straight
-  **Form:** Paste

Viscosity: 540,000 Thixotropic
Temperature Resistance: 400°F






545™ Hydraulic and Pneumatic Fittings

-  **Substrate:** Metal
-  **Thread Type:** Fine
-  **Form:** Liquid

Viscosity: 15,000 cP
Temperature Resistance: 300°F






561™ No-drip, No-mess

-  **Substrate:** Metal
-  **Thread Type:** Tapered and Straight
-  **Form:** Semi-solid

Viscosity: Semi-solid
Temperature Resistance: 300°F



5452™ Hydraulic/Pneumatic, Fast Cure

-  **Substrate:** Metal
-  **Thread Type:** Coarse and Fine
-  **Form:** Gel

Viscosity: 28,000 Thixotropic
Temperature Resistance: 360°F

Plastic Thread Sealants



MR 5438™

General Purpose

 **Substrate:** Metal

 **Thread Type:** Tapered and Straight

 **Form:** Paste

Viscosity: 100,000 cP

Temperature Resistance: 300°F

Surface Preparation Thread Sealants



SF 7070™

Cleaner IDH 231562

A general purpose parts cleaner formulated for metals and plastics. The product is able to remove most oils, greases, lubrication fluids, metal cuttings and dries residue free.



SF 7649™

Primer IDH 209715

Designed to promote the curing speed of LOCTITE® anaerobic adhesives and sealants without any significant loss of joint strength. Especially recommended for applications with passive metals or inert surfaces and with large bond gaps.

Equipment Thread Sealants



Dial-A-Seal®

IDH 998400

The Dial-A-Seal® Applicator is a touch-actuated, all pneumatic applicator for dispensing high viscosity LOCTITE® product onto threaded pipe fittings and nipples.



NEW LOCTITE® Pro Pump Handheld Dispenser

IDH 2564842

Our all-new easy to use, light-weight, durable applicator that allows for precision application of threadlockers, retaining compounds and thread sealants in 50/250 ml bottles.

ADDITIONAL EQUIPMENT

50 ml F Tube Squeeze Dispenser
IDH 1083845

THREAD SEALANTS

Product	IDH Number	Pack Size	Features	Color	Viscosity mPa·s, 20 RPM [cP]	Thixotropic (yes/no)	Temperature Range	Breakaway Torque/Prevail Torque, M10 [N/m]
METAL								
567™	2087067	50 ml	For Stainless Steel, high temperature	White	540,000*	Yes	-65°F to 400°F (-55°C to 200°C)	12
	2087069	250 ml						
545™	135486	50 ml	Pneumatic hydraulic sealant, no fillers	Purple	15,000*	No	-65°F to 300°F (-55°C to 150°C)	2
561™	463973	19 g	Easy application, general purpose	White	Semi-solid	-	-65°F to 300°F (-55°C to 150°C)	6
5452™	463973	50 ml	Pneumatic hydraulic sealant, no fillers, High Viscosity, Fast Cure	Purple	28,000	Yes	-65°F to 360°F (-55°C to 180°C)	3.5
	463973	250 ml						
PLASTIC								
MR 5438™	1537780	16 oz	Small screw, general purpose	White	100,000	No	-65°F to 300°F (-55°C to 150°C)	NA

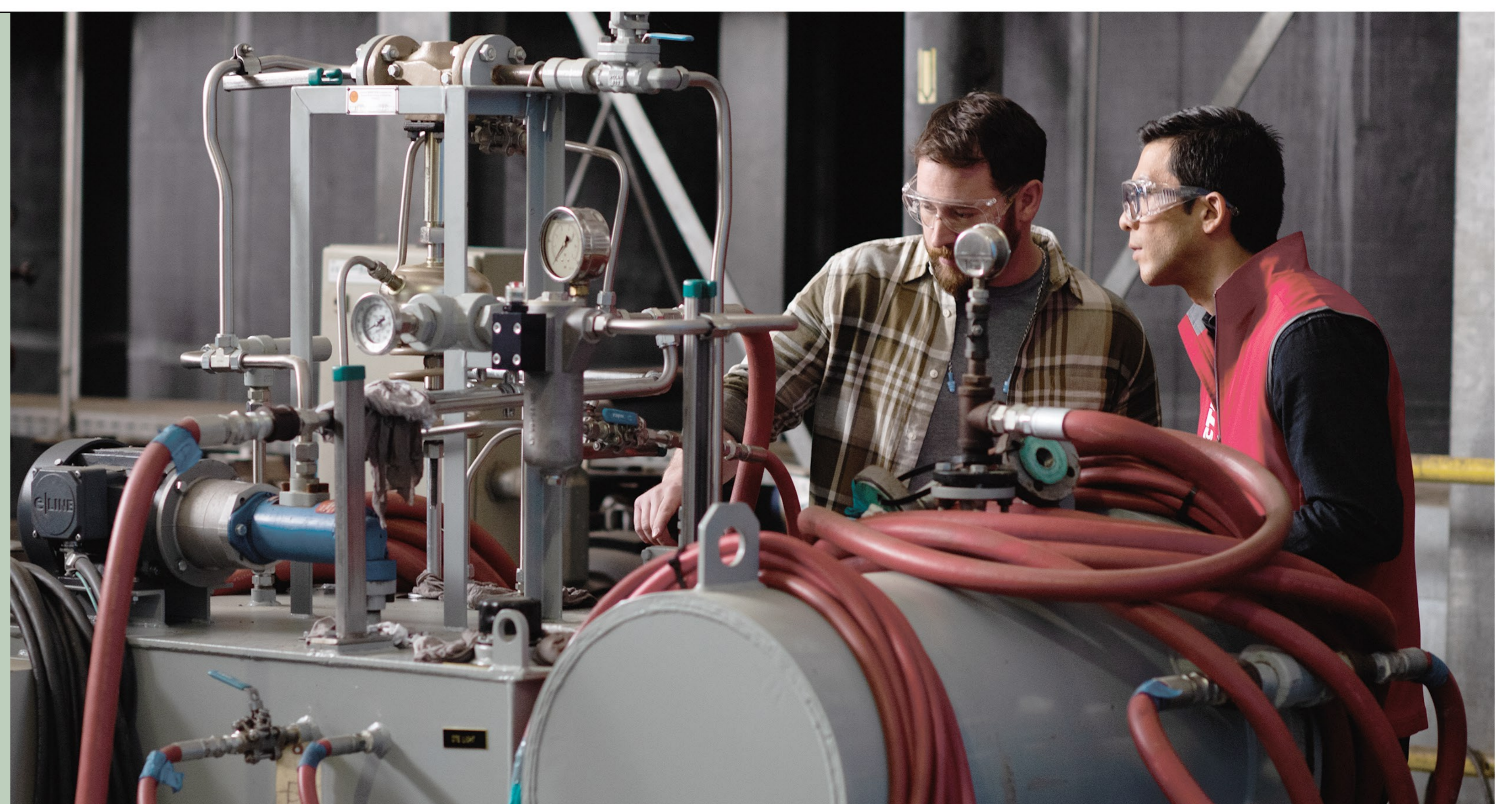
*20 RPM

**M10 Black Oxide

**3/8 x16 Zinc Phosphate

LOCTITE SERVICES

**PREVENT
COSTLY LEAKS
AND UNPLANNED
DOWNTIME.**



PUTTING A STOP TO LEAKING FITTINGS



“LOCTITE® helped us reduce downtime and labor costs with a better, longer-lasting solution.”

A compressor service company serving the natural gas production, processing, and transportation industry faced an increasing number of leaks on NPT fittings. Pipe dopes and PTFE tapes lacked sufficient sealing properties, and tapes might loosen and leak during equipment operation. And both options still meant downtime and high labor costs to rework fittings. A product is needed that seals NPT fittings and prevents thread galling during assembly. **LOCTITE® 567 PST™** thread sealant, which prevents thread galling and has high locking strength to prevent leaks, was an ideal alternative.

The LOCTITE® engineering solutions expert showed the team how to clean the fittings, apply **LOCTITE® 567 PST™** to the leading threads, and properly tighten. Immediately, the fittings were sealed up to 1000 psi, and the company’s large natural gas compressors will run leak-free until the system is disassembled for required maintenance, lowering operating costs.

Benefits

LOCTITE® 567 PST™ Thread Sealant:

- Provides lubrication to prevent thread galling on NPT fittings
- Has sufficient locking strength to maintain a complete seal during transport and operation
- Has significantly lowered rework costs associated with equipment fitting leaks



LOCTITE®

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