

Maintenance, Repair and Overhaul Solutions Guide & Product Selector





Making The Right Choice...

For every industrial maintenance, repair and overhaul challenge, Loctite® products have the right solution.

Designed to extend equipment life, increase production reliability and prevent common failures, the Loctite® product range is a maintenance professionals most valuable tool.

Proven with over 50 years industrial experience, typical product applications include:

- Securely lock any threaded fastener or fitting against vibration and shock load.
- Seal and protect threaded joints and components from corrosion.
- Instantly replace gaskets of any size or shape.
- Retain bearings, bushes and cylindrical parts into housings or onto shafts even if worn.
- Protect metal parts from corrosion, galling and seizing.
- Permanently and quickly bond a wide variety of materials.
- Make emergency repairs to burst pipes and tanks.
- Clean, degrease and convert rust.

More Than A Product...

Our highly experienced Loctite® Application Engineers are committed to providing the highest level of technical and product support in the industry.

Working closely with our local industrial suppliers, our Application Engineers provide full process support from problem solving to onsite maintenance and product training.

Within this Solutions Guide & Product Selector you will find everything you need to know about Loctite® brand industrial grade products. Whether for an emergency repair or preventative maintenance, you will find it easy to select the Loctite® product you need. For further information visit our website www.loctite.com.au or call the Loctite® Customer Support Line 1300 88 55 56.

Committed To Innovation...

From its founding in 1953, based on the world's first anaerobic product, Loctite® has achieved success through innovation. An unrelenting commitment to continuous research and development has resulted in the most technically advanced range of industrial maintenance products available today. Products that increase equipment reliability, reduce costs and improve quality throughout industry. Here are some of our newest innovations featured throughout this catalogue.

Loctite® Sticks

The quality and performance you trust in a new and more convenient semi-solid stick formula. These patented new stick products offer greater flexibility for tougher applications, especially overhead, under or around machinery, and on components that can not be moved. They're compact, making them easy to carry from job to job and easy to store in a tool box, tool belt or pocket. The semi-solid formula means that they won't spill or leak. Now available in an expanded range including two threadlockers, a pipe sealant, an anti-seize and primer.

Loctite® Reliability with a twist!

Threadlockers and Thread Sealants

Introducing the Loctite® 243 and Loctite® 263. Formulated to deliver best performance on active and passive metals, increased oil tolerance and improved high temperature performance.

Loctite® Freeze & Release

The solution for releasing seized or corroded parts – SHOCK FREEZE. Loctite® Freeze & Release instantly chills seized and rusted parts (bolts, nuts, studs). The exceptional shock freeze effect causes microscopic cracks in the layer of rust, allowing the lubricating ingredient to wick directly into the rust by capillary action. The assembly can be easily dismantled after allowing 1-2 minutes reaction time. Released parts remain lubricated and protected from corrosion. (Refer to page 26 for more details).







THREADLOCKING

Locking of threaded fasteners

- » PREVENTS LOOSENING FROM SHOCK AND VIBRATION
- » SINGLE COMPONENT CLEAN AND EASY TO APPLY
- » CAN BE USED ON VARIOUS SIZES OF FASTENERS REDUCES INVENTORY COSTS
- » SFALS THREADS
- » STOPS RUST AND CORROSION

ARE THE PARTS ALREADY ASSEMBLED?

Low - Purple

Medium - Blue

Easy Disassembly

Improved Oil Tolerance

Stick Applicator

Use on all Metals

Overhead Applications

► HENKEL SOLUTIONS	LOCTITE® 222	LOCTITE® 243	LOCTITE® 248
Fastener Size	Up to 36mm (M12)	Up to 36mm (M36)	Up to 20mm (M20)
Colour	Purple	Blue	Blue
Strength	Low	Medium	Medium
Fixture Time*	20 min	10 min	5 min
Full Strength*	24 hrs	24 hrs	24 hrs
Breakloose Torque* Nm (lb.in.)	14 (120)	24 (210)	20 (177)
Prevailing Torque [#] Nm (lb.in.)	14 (120)	4 (35)	-
Temperature Range	-54°C to +150°C	-54°C to +180°C	-54°C to +150°C
Recommended Primer	7471/7088	7649/7088	7649/7471
Disassembly Method	Hand Tool	Hand Tool	Hand Tool
Package Size & IDH	10 ml bottle - 471660 50 ml bottle - 231499 250 ml bottle - 1496888	10 ml bottle - 1311375 50 ml bottle - 1311321 250 ml bottle - 1311323	19 g stick - 933728

^{*} M10 steel nut @ bolt, cured for 24 hours @ 22°C and pre-torqued to 5Nm.
* Breakaway torque. For further information refer to product Technical data Sheet.



Recommended for low strength threadlocking of adjusting screws, counter sunk head screws and set screws; on collars, pulleys, tool holders, and controllers.



High performance on various metals, even without use of a primer. Improved reliability in high temperature applications and on oil contaminated surfaces.



Medium strength semisolid stick applicator ideal for hard to reach applications. Recommended for fastener applications where removal is required.

Refer to page 31 for Application Procedures.

¹ Prevailing Torque measured as per ISO 10964







	High - Red		Very High - Red	Medium/High - Green
Improved Oil Tolerance	Stick Applicator	High Thermal Stability	Very High Strength	Wicking Grade
Use on all Metals	No Mess		High Chemical Resistance	Fills Porosity in Welds , Castings
LOCTITE® 263	LOCTITE® 268	LOCTITE® 272	LOCTITE® 277	LOCTITE® 290
Up to 36mm (M36)	Up to 20mm (M20)	Up to 36mm (M36)	M25 and larger	Up to 12mm (M12)
Red	Red	Red / Orange	Red	Green
High	High	High	High	Medium/High
10 min	5 min	60 min	30 min	20 min
24 hrs	72 hrs	24 hrs	24 hrs	6 hrs
39 (345)	37 (330)	23 (200)*	38 (340)	30 (270)
25 (220)¹	-	25 (220)*	40 (350)	40 (350)
-54°C to +180°C	-54°C to +150°C	-54°C to +232°C	-54°C to +150°C	-54°C to +150°C
7471	7471	7649/7471	7649	7649
Direct Heat	Direct Heat	Direct Heat	Direct Heat	Direct Heat
10 ml bottle - 1374241 50 ml bottle - 1331618 250 ml bottle - 1331536	19 g stick - 933730	50 ml bottle - 88442	50 ml bottle - 232658 250 ml bottle - 1496860	10 ml bottle - 1175229 50 ml bottle - 1496855 250 ml bottle - 1225613
250 ml bottle - 1331536			250 mi botue - 1496860	250 ml bottle - 122561

various metals, even without use of a primer. Improved reliability in high temperature applications and on oil contaminated surfaces.

High performance on



stick applicator ideal for hard to reach places. Recommended for heavy duty applications such as transmission bolts and construction equipment.

High strength semi-solid



threadlocker with outstanding chemical resistance. Suitable for sealing most refrigerants.

High temperature



threadlocker with outstanding chemical resistance.

Very high strength



locking pre-assembled fasteners such as instrument screws, electrical connectors and setscrews.

Recommended for



THREADLOCKING

Invented as a revolutionary method to lock and seal threaded fasteners, Loctite® brand anaerobic threadlockers have found wide acceptance in a range of applications – from delicate electronic components to heavy construction equipment. Loctite® brand threadlockers are available in varying viscosities and strengths for virtually any application, including exposure to extreme environments.

FEATURES & BENEFITS

Prevents Loosening of Fasteners – Sets to a thermoset plastic that fills microscopic gaps between interfacing threads preventing any movement.

Seals Against Corrosion – Seals the joint preventing ingress of moisture and other corrosive gases, chemicals and fluids.

Provides Correct Lubricity – Lubrication properties yield controlled torque tension curves - ideal for assembly of equipment to specified torque values.

Controlled Strengths – Available in varied controlled strengths to suit all applications – low, medium and high.

Suitable for all Fastener Sizes – Eliminates the need to hold stock of expensive mechanical fasteners.

Easy to Apply – Simply apply to the thread and assemble. Excess will not cure and can be easily wiped away.

DID YOU KNOW?

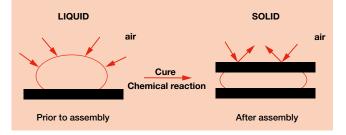
How does an Anaerobic Adhesive work?

Anaerobic adhesives are single-component materials which cure at room temperature when deprived of contact with oxygen.

Curing begins when the two metal parts are mated together and any adhesive outside of the joint or thread remains liquid.

The capillary effect of the anaerobic liquid adhesive carries it into even the smallest gaps to fill the joint.

The cured adhesive is then 'keyed' to the surface roughness of the parts forming a tough thermoset plastic, which bonds the components and seals against moisture or chemical attack.



Refer to page ${\it 31}$ for Application Procedures.

THREAD SEALING

Loctite® brand liquid thread sealants seal and secure metal pipes and fittings, filling the space between threaded metal parts and curing to prevent leakage. Designed for low and high pressure applications, liquid thread sealants seal instantly for low pressure testing. When fully cured, they seal to the burst strength of most piping systems.



FEATURES & BENEFITS

Complete Seal – Fills voids between threads creating a 100% seal, preventing leakage caused by vibrational loosening, temperature cycling, corrosion and extreme pressures.

Locks & Seals in any Position – Seals independent of assembly torque allowing correct alignment of fittings.

Does Not Block Pipe System – Uncured anaerobic sealant is completely soluble in hydraulic fluid, diesel oils, petrols and most industrial chemicals.

Instant Low Pressure Seal – Suitable for immediate operation or low pressure testing of newly sealed threads.

Lubricates During Assembly – Eliminates risk of overstressing fittings or castings, common with alternative thread sealing methods.

Easy Application & Disassembly – Simply apply directly to the thread and assemble. Excess sealant can be wiped away without solvents or chemicals. Disassembled with hand tools.

Replaces most tapes and hemp/paste combinations.

DID YOU KNOW?

Industry loses millions of dollars annually due to leakage of fluids through pipe and tubing. Loctite® brand sealants prevent fluid loss, minimising cost of wastage, maintenance and down-time.

The table below details the significant potential cost of a leaking hydraulic fitting over a one year period.

Leakage Rate	Loss per Day (ltr)	Loss per Year (ltr)	Annual Cost (\$/Year)
One drop in 10 sec.	0.56	204.98	\$1,025
One drop in 5 sec.	1.12	409.97	\$2,050
One drop per sec.	5.62	2049.84	\$10,250
Based on Hydraulic Flui	d: \$5.00 / litre		

Refer to page 32 for Application Procedures.



THREAD SEALING

- » REPLACES TAPES AND PASTES
- » LIQUIDS ENSURE COMPLETE CONTACT BETWEEN THREADS FOR A 100% SEAL
- » LIQUIDS WILL NOT CREEP, SHRINK, SHRED OR BLOCK SYSTEMS (INCLUDING FILTERS)
- » DISASSEMBLY CAN BE ACHIEVED EASILY WITH BASIC HAND TOOLS

► ARE THE PIPE THREADS METAL OR PLA	ASTIC?		
	Plastic (or Me	tal & Plastic)	
WHAT WILL FLOW THROUGH PIPES?	Water only		
WILL OPERATING PRESSURE EXCEED 300KPA?	Yes	No	
ARE THE THREADS FINE OR COARSE?	Up to 100mm (4")		Fine - up
WHAT APPROVALS ARE REQUIRED?	Potable Water/Gas		
UNIQUE FEATURES	Allows Back off to Align Fittings	Hot & Cold Water	Will no critic
► HENKEL SOLUTIONS	LOCTITE® 55	LOCTITE® 5331	LOC
Description	Cord	White Paste	Bro
Maximum Thread Size	100mm (4")	76mm (3")	191
Instant Low Pressure Seal	Yes	Yes (up to 50kPa)	
Temperature Range	-54°C to +150°C	-54°C to +150°C	-54°
Disassembly Strength	Low	Low	
Recommended Primer	-	-	74

^{*}For further information refer to product Technical data Sheet.

Package Size & IDH



150 m spool - 473136

Faster, more versatile pipe sealant which out-dates traditional tapes and hemp/pastes combinations. Provides an instant seal and allows back-off to align fittings.

Approvals

- Plumbing Safety License AS/NZS 4020:2002 Cert No. 8638 (Potable Water)
- AGA Certificate 6007 to 2400kPa (Gas).

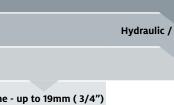


100 ml tube - 142492

Recommended for use on low pressure threaded plastic or plastic/metal fittings carrying hot or cold water.

Approvals

- German DVGW No 96.07e125 (Gas & Potable Water)
- German KTW (Potable Water)
- WRC approved to 85°C (Potable Water)



Gas

Will not contaminate critical assembles

LOCTITE® 569
Brown Liquid
19mm (3/4")
No
-54°C to +150°C
Low
7471/7649

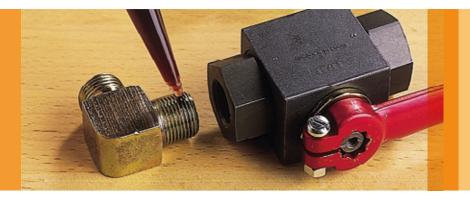
50 ml bottle - 234473 250 ml bottle - 234475



Recommended for fine threaded fittings as used in hydraulic and pneumatic applications. Approvals

• AGA Certificate 3375 to 1050kPa (Gas)

Refer to page 32 for Application Procedures.





		Metal Only			
Pneumatic			General Use		Steam/Gas
		Yes			
	Coarse - up to 25mm (1")	Coarse - up to 25mm (1")	Coarse - up	o to 76mm (3")	76mm (3")
	No	No	Potable Water/Gas	Gas	No
	Locks Threads (25Nm)	Overhead Applications	Locks Thread (17Nm)	High Temperature +204°C	For Steam Applications, high temperature
	LOCTITE® 542	LOCTITE® 561	LOCTITE® 577	LOCTITE® 567 PST [™]	LOCTITE® 5770
	Brown	Off White	Yellow	White	Off White
	25mm (1")	25mm (1")	76mm (3")	76mm (3")	76mm (3")
	No	Yes	Yes	Yes	Yes
	-54°C to +150°C	-54°C to +150°C	-54°C to +150°C	-54°C to +204°C	-54°C to +280°C
	Medium	Medium	Medium	Low	High
	7471/7649	7471/7649	7649	7649/7471	7471
	10 ml bottle - 470771 50 ml bottle - 1560050	19 g stick - 943428	50 ml tube - 229930 250 ml tube - 281823	6 ml tube - 234451 50 ml bottle - 473168 250 ml bottle - 234453	50 ml tube - 1365034

Recommended for threaded fittings as used in hydraulic and pneumatic installations. Approvals

96.02e125 (Gas & Potable Water) • BS 6956 Type A (Gas)

• German DVGW No

- WRC approved to 85°C
- (Potable Water)

Semi-solid stick formula offers added convenience and portability. Formulated for fast, reliable curing on metal, tapered pipe threads and fittings. Provides high pressure sealing at operating temperatures up to 150°C.

Recommended for all coarse metal threads. Suitable for applications at low temperatures requiring fast cure. Approvals

- Plumbing Safety License AS/ NZS 4020:2002 Cert No. 20079 (Potable Water) • AGA Certificate 4787 to
- 2600kPa (Gas)

coarse metal threads where slow cure is required to prolong time frame for adjusting valves and fittings. Approvals • AGA Certificate 3207 to

Recommended for all

1050kPa (Gas)



sealant, designed to seal threaded pipe fittings in applications requiring continuous heat resistance of up to 280°C.

High temperature thread



GASKETINGSealing and Flanges

- st NO SHIMMING EFFECT CONTROLLED TOLERANCES, NO NEED FOR RE-TORQUING
- » FILL ALL VOIDS REDUCE THE NEED FOR A FINE SURFACE FINISH OF FLANGES
- » PARTS CAN BE DISASSEMBLED FASILY EVEN AFTER EXTENDED SERVICE
- » RESISTS HIGH PRESSURE WHEN FULLY CURED

▶ WHAT SIZE IS THE GAP?				
	Less that 0.25mm (Anaerobic Sealants)			
IS THE FLANGE RIGID OR FLEXIBLE?	Rigid (Metal to Metal)			
WHAT IS THE FLANGE MATERIAL?	Steel	Alloy/Aluminium	All Metals	
MAXIMUM TEMPERATURE	150°C	150°C	200°C	
UNIQUE FEATURES	Use with Shims	Easy Disassembly	High Chemical Resistanc	
► HENKEL SOLUTIONS	LOCTITE® 515	LOCTITE® 518	LOCTITE® 510	
Gasket Type	Formed in Place	Formed in Place	Formed in Place	
Flange Type (Elongation)	Rigid	Rigid	Rigid	
Tack Free Time*	-	-	-	
Low Pressure Seal	30 min	20 min	30 min	
Temperature Range	-54°C to +150°C	-54°C to +150°C	-54°C to +200°C	
Oil Resistance	Excellent	Excellent	Excellent	
Water/Glycol Resistance	Good	Good	Excellent	
Sensor Safe	Yes	Yes	Yes	
Neutral Cure	-	-	-	
Recommended Primer	7649/7471	7649/7471	7649	
	6 ml tube - 209756	6 ml tube - 209759 25 ml syringe - 1329465	50 ml tube - 1496856	

[&]quot; Varies with substrate. For further information refer to product Technical data Sheet.

Package Size & IDH



50 ml tube - 473169

300 ml cartridge - 265605

Recommended for coating and re-using gaskets to improve sealing. Approvals

• AGA certificate 2590 to 690kPa (Gas)



25 ml syringe - 1329465

50 ml tube - 472904

Recommended for use on rigid iron, steel and aluminium flanges e.g. aluminium gearbox and engine castings, etc.



50 ml tube - 1496856

250 ml tube - 1496883

Recommended for use on rigid metal parts e.g. cast iron components and pump housings, etc. operating at high temperatures. Approvals

• AGA certificate 2590 to 690kPa (Gas)

Refer to page 33 for Application Procedures.



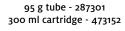


Up to	6.0mm	(Silicone	Sealants)
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Flexible (Stamped Metal Assemblies)

Metal or Non-Metals

200°C		2	60°C	315°C
Fast Cure	Highly Flexible	Hot Oil Resistance	Good Electrical Insulator	High Temperature Resistance
LOCTITE® 5699 Grey Maxx®	LOCTITE® 598 Black Maxx®	LOCTITE® 587 Blue Maxx®	LOCTITE® 5920 Copper Maxx®	LOCTITE® Superflex Red
Formed in Place	Formed in Place	Formed in Place	Formed in Place	Formed in Place
Flexible (100%)	Flexible (300%)	Flexible (350%)	Flexible (350%)	Flexible (300%)
30 min	25 min	30 min	40 min	30 min
30 min	40 min	30 min	40 min	30 min
-60°C to +200°C	-54°C to +260°C	-60°C to +260°C	-60°C to +316°C	-60°C to +315°C
Good	Excellent	Excellent	Good	Good
Good	Good	Good	Good	Good
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	No



Designed for high torque

applications. Remains

Outstanding oil and

Non-corrosive, low

shop fluid resistance.

high vibration.

odour.

flexible and withstands



95 g tube - 640172

Replacement for cork and paper cut gaskets on flanges and stamped sheet metal covers.
Recommended for use where high vibration or flexing occurs. Can also be used with plastic parts. Oxygen sensor safe.



95 g tube - 332651

300 ml tube - 333949

Recommended for sealing all types of flanges including stamped sheet metal where high flexibility and high oil or water glycol resistance is required. Oxygen sensor safe.



85 g tube - 287437

Single component RTV non-sag silicone paste for low volatility applications. Adheres to metal, glass, natural and synthetic fibres, wood, ceramics, and many plastic substrates. Oxygen sensor safe.



80 ml tube - 135507

300 ml cartridge - 198817

Recommended for sealing all of flanges including stamped sheet metal where high temperature resistance is required, e.g. assembly and repair of industrial furnaces, ovens, boilers, exhaust stacks and high temperature ducting.



GASKETING

FEATURES & BENEFITS

Anaerobic Gaskets

Loctite® brand anaerobic gaskets remain liquid when exposed to air, but cure when confined between mating flanges. Anaerobic gasketing products are best suited for small gap applications and rigid metal-to-metal assemblies.

Features and Benefits;

- ✓ No Shimming Effect controlled tolerances, no need for re-torquing.
- ✓ Fills all voids reducing the need for fine surface finish on flanges.
- ✓ Does not shrink when cured.
- ✓ Parts can be easily disassembled even after extended service.
- ✓ Resists high pressure when fully cured.

Silicone Sealants

Loctite[®] brand silicone gasketing materials include unique products with excellent fluid and high temperature resistance. They are best suited for large gap applications and stamped metal assemblies where flange flexing occurs.

Features and Benefits;

- ✓ High gap fill and flexibility.
- ✓ High temperature and chemical resistance*.

*Refer to Technical Data Sheet

DID YOU KNOW?

What is a Formed-In-Place Gasket?

Formed-in-place gaskets are applied as a fluid sealant to one of the flange surfaces before the parts are assembled. When the parts are assembled the sealant spreads between the flanges, filling gaps, voids, scratches and surface irregularities.

After assembly the gasket cures and forms a durable seal.

Formed-in-place gaskets eliminate the inventory expense of stocking countless pre-cut gaskets.

How do you remove baked-on gasket material?

Loctite® Chisel® Paint Stripper easily removes pre-cut gasket cement and formed-in-place gaskets in 10-15 minutes. Simply spray on, then wipe or scrap off residual gasketing material.

(Refer to page 26 for further details).

RETAINING

Accepted as a standard method for assembling press and slip parts, Loctite® anaerobic retaining compounds fill the 'inner space' between components and cure to form a strong precision assembly. Formulated in a wide variety of viscosities, gap fills, flexibility and strength characteristics, Loctite® anaerobic retaining compounds are suitable for a broad range of industrial maintenance applications.



FEATURES & BENEFITS

Increased Assembly & Product Reliability - Prevents damage caused by press or shrink fits such as wallowing, backlash and fretting corrosion.

Fills all Voids & Ensures 100% Contact - Fills infinite microscopic imperfections that exists on even the most precisely machined surfaces, thereby providing 100% contact between mating parts, ensuring load and stress is distributed evenly over the joint.

Creates Stronger Industrial Assemblies - Increases shear strength of mechanical assemblies and is suitable for a wider range of industrial applications from securing a metal locating pin to large diameter shaft bearings.

Seals Against Corrosion – Seals the assembly preventing ingress of moisture and other corrosive gases, chemicals and fluids.

Replaces or Augments Mechanical Assemblies -Reduces need for close tolerances, additional securing components and elaborate assembly methods, therefore reducing maintenance cost.

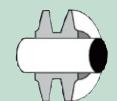
Controlled Strengths – Available in high & moderate strengths formulations to suit all applications. Parts can be disassembled using regular processes.

DID YOU KNOW?

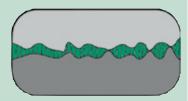
Interference fits typically have only 20-40% effective contact area!

Typically the contact area is limited to the peaks left behind by machining processes. Micro-movement during dynamic loading can shear these away, allowing the joint to fail. Tightening the machining tolerances to avoid this is a very expensive solution.

A Loctite® anaerobic retaining compound assures 100% contact, as well as eliminating "fretting corrosion" within the joint.



Loctite® brand Retaining Compounds fill the microscopic peaks and valleys, ensuring maximum adhesion between mating surfaces





RETAINING Securing Cylindrical Assemblies

- » HIGH AND MODERATE STRENGTH PRODUCTS CAN CARRY HIGH LOADS AND ELIMINATE
- » REDUCE THE NEED FOR CLOSE TOLERANCES
- » 100% CONTACT LOAD AND STRESS ARE DISTRIBUTED EVENLY OVER THE JOINT

► WHAT SIZE IS THE GAP?			
	Yes (Gaps to	o 0.25mm)	
WHAT STRENGTH DO YOU REQUIRE?	Medium	Medium/High	
MAXIMUM TEMPERATURE	150	150°C	
UNIQUE FEATURES	Easy Disassembly	General Purpose	
► HENKEL SOLUTIONS	LOCTITE® 641	LOCTITE® 609	
Colour	Yellow	Green	
Strength	Medium	Medium	
Fixture Time*	30 min	25 min	
Full Strength [#]	24 hrs	24 hrs	
Gap Fill* / Max Gap Fill	o.o5mm* / o.25mm	o.15mm* / o.25mm	
Compressive Shear Strength* N/mm² (psi)	6.5 (940)	15.8 (2,290)	
Temperature Range	-54°C to +150°C	-54°C to +150°C	
Recommended Primer	7471/7649	7649/7471	
Disassembly Method	Pulley or Press	Press	
Package Size & IDH	10 ml bottle - 469090 50 ml bottle - 1496859 250 ml bottle - 1496874	10 ml bottle - 471311 50 ml bottle - 234551 250 ml bottle - 234549	

[#] Steel pin & collar, cured for 24 hours @ 22°C.

For further information refer to product Technical data Sheet.



A controlled strength retaining compound, ideal for cylindrical parts that require disassembly; e.g. retention of bearings onto shafts and into housings.



Recommended as a general purpose, low viscosity retaining compound. Use to bond rotors to shafts, secure bushings and sleeves, and augment press fits.

^{*} Steel pin & collar cured for 2 hours @ 121°C.





	Yes (Gaps to 0.5mm)			
	High			High
150°C		232°C	150	°C
Slow Cure	Quick Cure	Very High Temperature	High Lubricity	Repairs Worn Parts
LOCTITE® 635	LOCTITE® 680	LOCTITE® 620	LOCTITE® 232	LOCTITE® 660
Green	Green	Green	Opaque Brown	Metallic Grey
High	High	High	Medium	Medium/High
30 min	30 min	60 min	4-6 hrs	10 min
72 hrs	24 hrs	24 hrs	72 hrs	24 hrs
o.o5mm / o.2mm	o.o5mm# / o.2mm	o.o5mm* / o.25mm	o.o5mm	o.5mm (clearance)
>20 (2,900)	19.3 (2,800)	17.2 (2,495)	7.0 (1,015)	17.2 (2,490)
-54°C to +150°C	-54°C to +180°C	-54°C to +232°C	-54°C to +150°C	-54°C to +150°C
7471	7471	7649	7471/7649	7471
Press	Press	Press	Press	Press
50 ml bottle - 135516 250 ml bottle - 135517	50 ml bottle - 234950 250 ml bottle - 234952	50 ml bottle - 234776 250 ml bottle - 135515	250 ml bottle - 1381765	6 ml bottle - 473167 50 ml bottle - 473166
	บันระเ			

Recommended for high strength retaining of parts with a clearance or interference fit, e.g. retaining bushes, bearings, seals, fans and liners.

Gives best resistance to dynamic, axial and radial loads. Recommended for retaining shafts, gears, pulleys, and similar cylindrical parts. Approvals • Plumbing Safety

License 4020:2002 Cert No. 8687 (Potable Water)



temperature retaining of parts with a clearance or interference fit, e.g. retaining bushes, bearings, seals, fans and liners.



properties to facilitate smooth assembly of heavy interference or high torque fits. Prevents galling and metal pick-up during assembly.



coaxial parts without re-machining. Enables reuse of worn bearing seats, keys, splines, tapers, or for retaining shims.



ANTI-SEIZE LUBRICANTS

- PROTECT AGAINST RUST, CORROSION, SEIZING AND GALLING
- » PROVIDE LUBRICATION IN EXTREME ENVIRONMENTS

▶ WHAT TYPE OF ANTI-SEIZE DO Y	OU REQUIRE?			
	-	General Purpose		
MAXIMUM TEMPERATURE	870°C	982°C	1315°C	
	Graphite & Metallic Flake Fortified	Graphite & Copper Fortified	Graphite & Nickel Fortified	
UNIQUE FEATURES	High Lubricity	High Temperature Resistance	Extreme Chemical Resistance	
► HENKEL SOLUTIONS	LOCTITE® Silver Grade Anti-Seize	LOCTITE® C5-A Copper Anti-Seize	LOCTITE® 771 Nickel Anti-Seize	
Colour	Silver	Copper	Silver	
Solid Lubricating Agent	Aluminium / Graphite	Copper / Graphite	Nickel / Graphite	
Torque Coefficient (K value)*	0.18	0.16	0.13	
Temperature Range	-29°C to 870°C	-29°C to 982°C	-29°C to 1315°C	
Metal Free	No	No	No	
Package Size & IDH	20 g stick - 944870 175 g aerosol - 471320 236 ml brushtop - 199012 250 g tube - 471321 500 g brushtop - 552091	453 g brushtop - 160796	500 g brushtop - 641488	

^{*} Varies with substrate. For further information refer to product Technical data Sheet.

K value based on 3/8" nut and bolt in Skidmore-Wilhem apparatus and tested in a Wilhelm.



5 kg bucket - 471322

Heavy Duty, temperature resistant, petroleum based lubricant compound fortified with graphite and metal flake. Inert, will not evaporate or harden in extreme cold or heat. For use in assemblies up to 870°C. Recommended for:

- General purpose machine and bolt assembly.
- Close tolerance assembly
- Fine threads and snug slip fits.



Exclusive formula suspends copper and graphite in a high quality grease. Protects metal parts from rust, corrosion, galling and seizing at temperatures to 982°C.

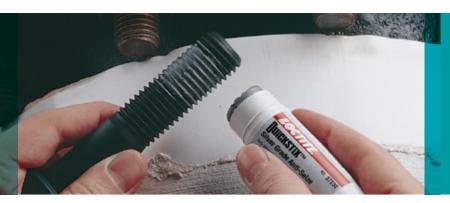
Recommended for:

- Nuts, bolts and studs.
- Fittings and shafts, machine surfaces.
- Fittings on steam turbines, pumps and valves.
- Flanges, extruders and dies.



Copper free formulation with extreme chemical resistance, recommended for stainless steel and other metal fittings. Prevents corrosion, seizing and galling in harsh chemical environments at temperatures to 1315°C. Recommended for:

- Chemical plants and oil refineries.
- Water and sewage plants.
- Environments where a 'clean' inert lubricant is needed.





Stainle	ess :	Steel	&
Titanium	Αp	plicat	tions

1315°C

Metal Free

Extreme Temperature Resistance

LOCTITE Heavy Duty Anti-Seize

Black

Calcium / Graphite

12.7mm steel bolts (Grade 8) and nuts (Grade 5)

-29°C to 1315°C

Yes

Soft Metal Applications

400°C

High Corrosion Resistance

LOCTITE® Zinc

Anti-Seize

Dull Silver

Zinc

0.15

-29°C to 398°C

Nο

Incidental Food Contact

400°C

Metal Free

NSF Approved

LOCTITE® Food Grade Anti-Seize

White

Calcium

-29°C to 400°C

Yes

Silicone Lubricant

205°C

Water & Steam Resistant

Electrical Resistance

LOCTITE Silicone Lubricant

Transparent Paste

Silicone

-

-29°C to 205°C

Yes

Molybdenum-disulfide

-29°C to 400°C (sliding) -29°C to 1315°C (anti-seize)

Heavy Duty

Static load will not attract dirt or dust

LOCTITE Moly Dry Film

Black

Graphite

0.06 - 0.12

-29°C to 400°C (sliding) -29°C to 1315°C (anti-seize)

Yes

510 g brushtop - 209758

454 g brushtop - 233507

226 g brushtop - 1198200

150 g tube - 234317 290 g aerosol - 231009

340 g aerosol - 473134



Metal free formulation provides outstanding lubrication to all metals including stainless steel, aluminum and soft metals up to 1315°C. Recommended for:

- OEM specified turbine studs and bolts.
- Ethylene and acetylene piping.
- $\bullet \ \ Petrochemical \ plants.$
- Environments prohibiting the use of copper.



Smooth mixture of zinc dust and petrolatum grease that acts like an 'internal galvaniser' for superior protection of aluminum and ferrous surfaces from seizure and corrosion up to 400°C.

Recommended for:

 Protecting aluminum, aluminum alloy, and ferrous metal from seizing and corrosion.



Metal free formulation provides high levels of purity and excellent lubricating properties for use on equipments with incidental food contact at temperatures up to 400°C.

Recommended for:

 Lubricating and protecting parts in food processing plants, breweries, packaging plants and hospitals.



Non-curing silicone paste that seals, lubricates, protects, waterproofs, and electrically insulates metal, rubber, and plastic parts. Will not tarnish paint, rubber or plastic surfaces.

Recommended for:

- Plug or ball valve, valve stem packing and protecting electrical contacts.
- Stopping leaks.



A molybdenum-disulfide based solid film lubricant. It is a heavy-duty lubricant used for general plant maintenance, metal working trade, machinery manufacturers and manufacturers of military and commercial jet engines.

Recommended for:

- Maintenance.
- Production.
- Aerospace.
- Automotive, heavy equipment.
- Electrical.
- Petro chemical.



ANTI-SEIZE LUBRICANTS

FEATURES & BENEFITS

High Temperature Resistance – Formulated with high quality grease and solid lubricating agents for optimal temperature resistance up to 1315°C.

Reduces Friction & Wear - Reduces metal-to-metal contact resulting in less friction and wear.

Seals Against Corrosion – Displaces and seals against contact with moisture and other corrosive liquids.

Metal Free Available - For use in environments that prohibit use of copper or where dissimilar metals are used.

Convenient Packaging & Easy Use - Available in tubs, tubes, aerosols and the patented stick applicator. Tubs include a brush attached to the lid for no-mess application.

DID YOU KNOW?

Effective Anti-Seize lubricants increase assembly strength!

An anti-seize lubricant used on a bolt helps to develop greater clamp load for the same torque compared to an unlubricated bolt. However care should be taken to avoid over-stressing a bolt caused by excessive lubrication. Loctite® anti-seize products provide a controlled torque coefficient which ensures consistent clamp load when tightening.

Anti-Seize lubricants act as an 'Internal Galvaniser'!

The use of an anti-seize product is an excellent method of preventing galvanic corrosion, especially in hot, acidic, or caustic environments. Anti-seizes resist galvanic attack by sacrificing the metals in the anti-seize in preference to the metal parts under protection.

INSTANT BONDING

WILL REQUIRE AN INSTANT ADHESIVE OPENING STATEMENT



FEATURES & BENEFITS

- ✓ Convenient bonding in seconds
- ✓ High shear strength
- ✓ No mixing
- ✓ Bonds to a wide variety of materials
- ✓ Extensive range available, suitable for infinite industrial maintenance and OEM applications.

PRODUCT DESCRIPTION

Henkel Corporation, the manufacturer of Loctite® products, is the world leader of structural and instant adhesive bonding solutions. Our advanced adhesives range includes Cyanoacrylates, Epoxies, Hot Melts, Light Cure, Silicones, Urethanes and Acrylics for maintenance and OEM applications.

The Loctite® adhesive products shown here is a targeted selection of maintenance bonding solutions. Call the Loctite® Customer Support Line for more information on our full product range.



INSTANT BONDING

- » ASSEMBLE PARTS QUICKLY AND EASILY
- » PEPAIR BROKEN PARTS
- » BOND DISSIMILAR MATERIALS

▶ WHAT ARE YOU BONDING?				
	Plastics/Metals/Rubber Difficult to bond surfaces			
DO YOU REQUIRE INSTANT ADHESION?	Yes			
IS THE SURFACE POROUS?	Non-P	Porous		
UNIQUE FEATURES	Instant Fixture	Instant Fixture	Instant Fixture	
omgot italionts		Bonds Most Plastics	No Run Formula	
► HENKEL SOLUTIONS	LOCTITE® 401	LOCTITE® 406	LOCTITE® 454	
Colour	Clear	Clear	Clear	
Gap Fill	o.o5mm	o.o5mm	o.10mm	
Viscosity (CP)	90	20	Gel	
Shear Strength* N/mm² (PSI)	20 (2,900)	15.5 (2,250)	20.9 (3,030)	
Temperature Range	-54°C to +120°C	-54°C to +120°C	-54°C to +120°C	
Fixture Time	5–20 sec	5-20 sec	30-60 sec	
Full Strength	24 hrs ≥24 hrs		≥24 hrs	
Recommended Primer	770	770	-	
Package Size & IDH	3 g tube - 547691 25 ml bottle - 265607	25 ml bottle - 265606 100 ml bottle - 265619 500 ml bottle - 265621	3 g tube - 233998 20 g tube - 466862 200 g tube - 23400	

^{*} Grit blasted mild steel cured for 24 hours at 22°C.



Designed for assembly of difficult-to-bond materials which require uniform stress distribution and strong tension and/or shear strength. Bonds a wide range of materials including metals, plastics and elastomers.



General purpose adhesive for difficult top bond surfaces. Bonds Santoprene® rubbers, polyolefin plastics and elastomers when used in conjunction with Loctite® 770 Polyolefin Primer.



General purpose gel for bonding metals, composite materials, wood, cork, foam, leather, card, paper, plaster and unglazed ceramics. Recommended for use on vertical or overhead surfaces. Fills gaps to 0.5mm with the use of Primer 7452.





Rubber/Metal	Plastics/Rubber	Plastics/Metals/Rubber		Plastics/Rubber	
No		Yes		No	
	Non-I	Porous		Porous	
Rubber Toughened	Bonds to EPDM	Rubber Toughened	Low Odor	Two-part Gap Fill	
High Peel Strength		High Peel Strength	Low Bloom		
LOCTITE® 480	LOCTITE® 424	LOCTITE® 435	LOCTITE® 460	LOCTITE® 3090	
Black	Clear	Clear	Clear	Clear	
o.o5mm	o.o5mm	o.o5mm	o.o5mm	5mm	
150	110	175	40	Gel	
26 (3,800)	22 (3,200)	19 (2,700)	21 (3,060)	21 (3,045)	
-54°C to +100°C	-54°C to +80°C	-54°C to +100°C	-54°C to +100°C	-54°C to +80°C	
60-120 sec	5–20 sec	30-60 sec	10-30 sec	30-60 sec	
≥24 hrs	≥24 hrs	≥24 hrs	≥24 hrs	≥24 hrs	
770	770	770	770	770	
20 g bottle - 1831562 300 ml bottle - 135253	25 ml bottle - 265609	25 ml bottle - 914156 500 ml bottle - 1055840	25 ml bottle - 473121 500 ml bottle - 937501	10 g dual syringe- 1796	



Black rubber toughened grade for bonding metal to metal and metal to rubber; especially suitable with applications where high peel strength is required and/or shock loads are present.



Excellent for bonding EPDM rubber. Loctite® 424 provides enhanced performance on EPDM and elastomers.



Rubber toughened adhesive with increased flexibility and peel strength along with enhanced resistance to shock. The product provides rapid bonding on a wide range of materials including metals, plastics and elastomers, as well as porous and absorbent materials like wood, leather and fabric.



Low odour and low blooming properties and is particularly suitable for applications where vapour control is difficult. This product provides rapid bonding of a wide range of materials including metals, plastics and elastomers. Loctite® 460 is particularly suited for bonding porous or absorbent materials such as wood, paper, leather and fabric.



Two component, fast curing, gap filling adhesive with excellent bonding characteristics to a variety of substrates including plastics, rubbers and metals. Loctite® 3090 is designed for the assembly of parts with varying or undefined band gaps. Loctite® 3090 is also suitable for bonding porous materials such as wood, paper, leather and fabric.



STRUCTURAL BONDING

- » ELIMINATES OR SIGNIFICANTLY REDUCES COSTLY MECHANICAL FASTENING METHODS SUCH AS RIVETS, SCREWS AND WELDS
- » IDEAL FOR QUICK REPAIRS AND STRUCTURAL ASSEMBLIES
- » EXCELLENT RESISTANCE TO SEVERE ENVIRONMENTAL CONDITIONS
- » BONDS DISSIMILAR MATERIALS, SUCH AS METAL TO PLASTIC
- » FILLS LARGE GAPS BETWEEN PARTS

WHAT ARE YOU BONDING?

WHAT ARE TOO BONDING:				
	Gener	General Purpose		
	Gap-fill (0.50mm)	Gap-fill (0.20mm)		
	Non-Porous	Porous		
	Allows Gap Fill	High Chemical Resistance		
UNIQUE FEATURES	Multi-Purpose			
HENKEL SOLUTIONS	LOCTITE® 330	LOCTITE® 3801		
Colour	Amber	Amber		
Gap Fill	o.5omm	o.20mm		
/iscosity	Gel	Syrup		
Shear Strength# N/mm² (PSI)	23 (3,300)	16 (2,300)		

Package Size & IDH

Recommended Activator/Primer

Temperature Range

Fixture Time

Full Strength

50 ml kit - 882799 300 ml cartridge - 929330

-54°C to +120°C

3-5 min

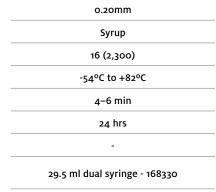
24 hrs

7387

Grit blasted steel cured for 24 hours at 22°C. *Applied @ 22°C / 50% relative humidity. For further information refer to product Technical data Sheet.



This multi-purpose adhesive suits most bonding needs including metal bonding, ID plates and signage. Two part, no mix, fast curing and toughened with good moisture, impact resistance and peel strength. (50ml kit includes 7387 Activator 25gm).





Conventional dual syringe, two-part epoxy. Ideal for emergency repairs or where fast cure time is required. Sets in 5 minutes. Resistant to a wide range of chemicals and solvents, and acts as an excellent electrical





General Purpose
Gap-fill (0.20mm)
Non-Porous

High Temperature Resistance

Electrical Insulator

LOCTITE® 3805			
Grey			
o.20mm			
Heavy Paste			
21 (3,000)			
-54°C to +150°C			
10-15 min			
16 hrs			
-			

56 g kit - 459312



Fast setting, two-component adhesive and filler system. Once mixed, the epoxy cures at room temperature, and forms a high strength, grey bondline.

When fully cured, the epoxy is resistant to a wide range of chemicals and solvents, and acts as an excellent electrical insulator.

Metal
Gap-fill (0.50mm)
Non-Porous

Toughened

High Peel Strength

LOCTITE® 324
Yellow
o.5omm
Syrup
25 (3,300)
135°C
5-10 min
72 hrs
7075

50 ml bottle - 88478



Especially suitable for joining dissimilar materials eg. ferrite to plated materials in electric motors, loudspeakers etc. This product is specifically formulated for toughness and impact strength. Loctite® 324 cures when confined between close fitting parts with the aid of an activator.

Plastics/Metals

Gap-fill (0.25mm)

Non-Porous

Toughened

LOCTITE® E20HP
Off-white
o.25mm
Syrup
23 (3,300)
80°C
3 hrs
24 hrs
-

50 ml tube - 237107 400 ml cartridge - 237109



Toughened, medium-viscosity, industrial grade epoxy adhesive with a medium work life. Once mixed, the two-component epoxy cures at room temperature to form a tough, off-white, bondline that provides high peel resistance and high shear strengths. The fully cured epoxy is resistant to a wide range of chemicals and solvents, and acts as an excellent electrical insulator.



PRIMERS & ACTIVATORS

- » ACTIVATES INACTIVE SURFACES AND SPEEDS CURE TIME
- » SPEEDS CURE THROUGH LARGER GAPS AND DEEP THREADS

▶ DO YOU NEED AN ACTIVATOR OR PRIMER?

Accelerate Cure or Promote Cure

WHAT TYPE OF PRODUCT ARE YOU USING?

222, 232, 243, 248, 268, 515, 518, 542, 561, 569, Anaerobic Threadlocking, Thread Sealing, Gasketing,

WHICH PRODUCT ARE YOU USING?

515, 518, 542, 561, 569, 609, 635, 660, 680 232, 248, 263, 268, 272, 277, 290, 510, 515, 518, 542, 561, 567, 569, 577, 620, 641

► HENKEL SOLUTIONS

LOCTITE® 7471

LOCTITE® 7649

Description	Activator	Activator	
Base Solvent	Acetone / Isoproponal	Acetone	
ying Time at 20°C 30 to 70 secs		30 to 70 secs	
On-Part Life	7 days	30 days	

Package Size & IDH

133 ml aerosol - 1553340 3.78 ltr can - 990061 100 ml pump - 991076 3.78 ltr can - 990024

Grit blasted steel cured for 24 hours at 22°C. *Applied @ 22°C / 50% relative humidity.For further information refer to product Technical data Sheet.

FEATURES & BENEFITS

- ✓ Activates inactive surfaces and speeds cure time
- ✓ Speeds cure through larger gaps and deep threads

Metals

Active Surfaces

Brass, copper,

bronze, iron,

(Activator optional)

soft steel

Inactive Surface

stainless steel,

(Activator required)

Aluminium,

magnesium, zinc, black

oxide, cadmium, titanium, nickel,

others

PE, PP, Acetyl



Use to increase the cure speed of Loctite® brand anaerobic products, especially at low temperatures, in applications with passive metals or inert surfaces, or where large gaps are involved.



Use to increase the cure speed of Loctite® brand anaerobic products, especially at low temperatures, in applications with passive metals or inert surfaces, or where large gaps are involved.





in Large Gaps or at Low Temperature <5°C

Primer Improve adhesion to difficult to bond surfaces

Retaining

324, 325

LOCTITE® 7075

Activator

Acetone

≥ 70 secs 120 mins

100 ml pump pack - 990065



Activate reaction of Loctite®324 or Loctite® 325. No mixing required.

Cyanoacrylate Adhesive

Post Cure Only (Refer to your Loctite® Sales Engineer for further details)

LOCTITE® 7452

Activator

Acetone

30 secs

≤60 secs

20 g aerosol - 471307 946 ml can - 990062



Apply post bonding applications to cure excess Loctite® brand cyanoacrylate adhesives. Typical applications include securing wires to coils or PCB's and tamperproofing adjustments and mounting edge guides or stiffeners.

All Loctite® cyanoacrylate adhesives

LOCTITE® 770

Polyolefin Primer

Heptane

30 secs

8 hrs

100 ml pump - 990067 946 ml can - 990068



Helps to provide strong reliable bonds with Loctite® brand cyanoacrylates on "impossible" substrates like polypropylene, polyethylene, PTFE and thermoplastic rubber.



▶ WHAT IS YOUR TASK?

RUST TREATMENT & CLEANING

- » STABILIZE EXISTING RUST
- » GUARD AGAINST CORROSION
- » PREVENT FLECTROCHEMICAL CORROSION
- » INCREASE BELT ERICTION

	Releases Corroded & Rusted Parts	Lubricates & Protects	Gasket Removal
WHAT ARE YOU CLEANING?	-	-	-
	Shock Freeze	Two spray options	Rapid Removal
UNIQUE FEATURES		Prevents corrosion	Minimises Flange Damage
► HENKEL SOLUTIONS	LOCTITE® Freeze & Release	LOCTITE® ML-11	LOCTITE® Chisel Paint Stripper
Appearance	Clear Liquid	Slightly Brown	White Liquid
Dry Time	-	-	-

Package Size & IDH

Note: Varies with substrate. For further information refer to product Technical data Sheet.

FEATURES & BENEFITS

- ✓ Effective rust converter formula for surface preparation of all metals
- ✓ Fast acting and noncorrosive gasket remover eliminates need for scraping and sanding
- ✓ Fast and effective industrial grade cleaners
- ✓ Premium-grade hand cleaner with skin conditioners to soothe and protect hands

1024403

310 g aerosol -



Shock-freezes seized and rusted parts, causing microscopic cracks in the rust and allowing the lubricant to penetrate. The assembly can be easily dismantled after allowing 1-2 minutes and parts remain lubricated and protected from corrosion.

Recommended for:

 Seized and or rusted components. 360 ml aerosol -1827849



A light, semi-drying oil type spray that penetrates, lubricates, displaces water, cleans surfaces and provides protection to metal surfaces, to prevent corrosion.



510 m aerosol -

642664

Removes backed on gaskets from any type of assembly in 10 to 15 minutes. Prepares metal parts for new gaskets, eliminating scraping and sanding. Suitable for wood and is non-corrosive to aluminium. Not for use with plastics, linoleum or synthetic fibres.





Clean & Degrease	Clean & Degrease	Rust Treatment		Clean & Degrease	
Metal Parts	All Parts		Large Surfaces	Hands	Hands
Non-chlorinated	Non-Corrosive	Converts Rust	Biodegradable	Effective on all Stains	Pre-moistened waterlesstowels
	ODC Free	Protects Surface	Non-Toxic	Conditions Skin	Leaves no residues
		Up to 121°C	Non-Flammable	Orange Scented	Fortified with emollients and natural oils
Non-Chlorinated Parts Cleaner	LOCTITE® 7070	LOCTITE® Extend® Rust Treatment	LOCTITE® Natural Blue®	LOCTITE® Yuk-Off®	LOCTITE® Hand Wipes
Clear Liquid	Clear Liquid	Milky Liquid	Blue Liquid	White Lotion	Textured Towel
30 secs	5-20 mins	30 min	-	-	-
			709 ml bottle - 235502	400 ml hottle - 266042	



Aggressively

dissolves • Dries fast with no

residue

parts

penetrates and

· Eliminates the need

to disassemble

· VOC compliant

No chlorinated

Applications:

Formulated to

solvent run-off

remove oil, grease,

fluids, oxidised oils

(gum) and asphalt

from all types of

metal parts.

420 g aerosol -

1506652





473 g aerosol - 661976

General purpose parts cleaner and degreaser which contains no ozone depleting chemicals. Prepares surface for bonding and is non-corrosive and plastic compatible. Removes grease, oil and dirt from electrical parts, tools, bearings, controls, and precision equipment.



946 ml bottle - 234981

3.78 ltr bottle - 160802

Converts existing rust into a stable base. Cured product acts as a primer ready for painting. Protects surfaces from corrosion. Use on metal pipes, valves, fittings, storage tanks, fences, guard rails, conveyors, construction and agricultural equipment.



3.78 ltr bottle -

209804

18.9 ltr bucket - 235503

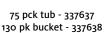
A biodegradable, allpurpose, industrial strength, concentrated cleaner and degreaser, Natural Blue® contains no hazardous solvents. Formulated for wipe down, pressure spraying and immersion cleaning processes, Natural Blue® can be economically diluted with water at room temperature or heated, to meet a wide range of industrial cleaning applications. ODC free, non flammable, non-toxic and pine scented. (709ml is diluted 1:1

ready for use).



400 ml bottle - 366943

Contains premiumgrade cleansing agents that quickly dissolve dirt, grease, resin, ink, paint, glue, tile cements and other stubborn stains. Citrusbased. smooth formula is pH balanced and fortified with skin conditioners lanolin, aloe vera, Vitamin E, jojoba and wheat germ extract to soothe and protect raw, rough hands.





Premoistened with a powerful cleaning formula, the abrasive, yet non-scratching fabric removes tar, grease, wax, ink, paint, lubricants and adhesives.



SPECIALTY AND EMERGENCY REPAIR KITS

- WILL SEAL LEAKS IN TANKS AND OTHER CONTAINMENT VESSELS IN ADDITION TO REPARING METAL PARTS

INDUSTRIAL MAINTENANCE KITS

20 x Products

EMERGENCY REPAIR KITS

FEATURES & BENEFITS

Comprehensive

Free Tool Box

HENKEL SOLUTIONS

Kits contents

Top Line Kit

Threadlockers -243, 263, 290 50ml Retaining Compounds -609, 641, 660, 680 50ml Thread Sealants -515, 567, 569 50ml Bonding Adhesives -406 25ml, 454 20g, 3805 56g Anti-Seize Lubricants -Silver Grade, 771 Nickel 500g Primers -7471 127g, 7649 100ml Others -790 Chisel® Paint Stripper 510g Metal Magic Repair 113g

Package Size & IDH

Kit - 496749

Primers.

13 x Products

Loctite® Core Products

Free Tool Box

MRO Kit

Threadlockers -243.263 5oml Retaining Compound -609, 660 50ml Gaskets - 515,587 50ml **Bonding Adhesives -**401 25ml Thread Sealants -567, 569 50ml Anti-Seize Lubricants -Silver Grade stick 20g Primer - 7649 133ml Others -ML-11 36oml Metal Magic Repair 113g Loctite® 7414 - 50ml

Kit - 1575818



Packaged in an easy-to-carry, rugged and lockable toolbox. The kit conveniently packages an assortment of popular Loctite® solutions for every MRO need.

Replace or Repair O-Ring Seals

Water & Oil Resistant

Permanent Replacement

O-Ring Kit

406 Instant Adhesive O-Ring Splicing Fixture **Cutting Blade** 1.6mm, 2.4mm, 3.0mm, 5.7mm, 8.4mm Cord (Metric Kit) or Loctite® Clean-up Solvent Loctite® Waterproofing Solution 3/32", 1/8", 3/16", 1/4" Cord (Imperial Kit)

> Metric - 473153 Imperial - 473154



Contains all of the materials necessary to produce stationary o-rings on the spot. Saves time by allowing o-ring replacement without disassembling machinery. Eliminates the need for inventory of different sized o-rings.

FEATURES & BENEFITS

Tool Kits

✓ Contains essential tools for industrial maintenance and repair

Emergency Repair Products

- ✓ Easy to use does not require specialised equipment
- ✓ Enable rapid repair of damaged equipment



Contain all the essential tools for industrial maintenance reliability including Threadlocking, Retaining Compounds, Thread Sealing, Bonding Adhesives, Anti-Seize Lubricants and



Stop Pipe Leaks

30 Minute Cure

Cures Wet or Underwater

Pipe Repair

Urethane-Impregnated Fiberglass Tape Metal Magic Steel Stick **Protective Gloves**

Repair Metal Surfaces

10 Minute Cure

Metal-Like Finish

Metal Magic

Putty stick (pre-measured resin & hardener. Simply cut off desired amount, knead and apply)

Tamper proofing

LOCTITE® 7414

Solvent paste adhesive

LOCTITE® Insulating & Sealing Wrap

Self fusing silicone tape

50mm x 1.8m kit - 473162



Recommended for reliable, temporary repairs of metal, plastic and composite pipes. Easy to use - no tools are required and can be applied to odd shapes as required. Cures in 30 minutes and can be sanded or painted.

113 g stick - 645440



Easy to use, steel-filled compound designed for emergency maintenance repairs on damp, dry or underwater surfaces. Cures to a metal-like finish in less than 10 minutes under typical temperatures of -30°C to + 121°C

50 ml tube - 1606544



Loctite® 7414 is a fast drying paste to be used in production to visually detect any movement in the adjustment of parts. Loctite® 7414 has been developed for use on compression fittings, studs, nuts, parts and assemblies after they have been set to proper tension or position.

3.05 m roll - 1540599



Self-fusing, silicone rubber wrap that is recommended for reliable, temporary repairs on a variety of substrates. Typical applications includes flexible hose repair, pipe repair, tool handle wrap, and electrical insulative wrap.



TECHNICAL REFERENCESTen Points About Liquid Threadlockers

Bolts, studs, set screws and other threaded fasteners are the "ties that bond" industrial equipment together. Considering that fastener loosening is a leading cause of catastrophic failure in machinery, maintaining proper clamping forces is an important element in fastening effectiveness.

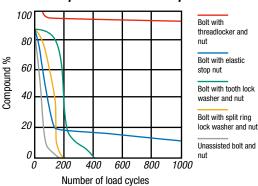
Liquid anaerobic threadlockers are an excellent method of keeping fasteners firmly in place. Listed here are ten points that plant personnel should know about using liquid anaerobic threadlockers:

It's not just a bolt. The real function of nuts and bolts is to provide clamping force to hold two components together. If that clamping force decreases, the fastener begins to slip, and failure becomes inevitable.

Thread space is the enemy. There can be as little as 15% metalto-metal contact between the thread of a nut and bolt. The empty space leaves room for movement that leads to self-loosening and loss of clamping force.

Side movement causes failure. Fasteners work loose for complex reasons, but a key cause is sideways movement. Bolted surfaces can slide sideways as a result of thermal expansion, bending of the assembly, impact or vibration. As this happens,

Clampload Retention Comparison



In test on transverse shock and vibration machines, liquid threadlockers drastically outperformed mechanical locking devices

the bolt takes on a rocking motion that causes the threads to wear against each other. In time, the bolt becomes almost frictionless, and the threads can unwind.

Threadlockers stop all kinds of movement. Liquid anaerobic threadlockers attack the root cause of loosening by filling spaces between the threads. The result is a secure, one-piece assembly that will not loosen under stress.

Sealing stops corrosion. By sealing between thread spaces, threadlockers keep out air and moisture that can cause corrosion - another common cause of fastener failure. Because of their chemical resistance, threadlockers seal effectively in contact with most fluids, gases, and solvents used in industry. (Refer to Fluid Compatibility Chart - pg 34-35).

Threadlockers hold better. In test on transverse shock and vibration machines, liquid threadlockers drastically outperformed mechanical devices (see graph). Bolts secured with threadlocker retained nearly all their clamping force after more than 1,000 cycles. Mechanical devices began to fail almost immediately.

Better performance cost less. Mechanical locking methods are effective to some degree, but are difficult to justify based on cost. A special nut or washer can cost more than four time as much as an application of liquid threadlocker. Mechanical devices also require extensive and costly inventories to keep the range of sizes on hand. Three or four grades of threadlocker – easy to carry and colour-coded, serve the same purpose.

It will come out. All threadlocked fasteners can be disassembled. Different grades of threadlockers can be used depending on the job. Fasteners secured with low and medium strength grades can be removed with common hand tools. Those secured with high strength grades can be removed by applying heat for a specified time.

Threadlockers ease assembly and disassembly. The thixotropic property of Loctite® anaerobics is conducive when applied to threads of fasteners and fittings: they become less viscous when put under stress (being shaken, stirred or dispensed) and return to their original state when stress is removed.

When wet, threadlockers lubricate fasteners, allowing proper, consistent assembly tightening and torque. When cured in place, threadlockers stop corrosion, thus preventing seizure and allowing for ease in disassembly.

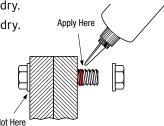
There is no "downside". Liquid threadlockers are not just for certain specialized uses. They perform effectively on fasteners and threaded assemblies of any type and size, in any kind of equipment.

APPLICATION PROCEDURES



► THROUGH HOLE (BOLTS AND NUTS)

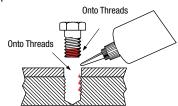
- 1. Clean all threads (bolt and nut) with Loctite® ODC-Free Cleaner & Degreaser. Allow to dry.
- 2. If necessary, spray all threads with Loctite® Primer (Refer to Technical Data). Allow to dry.
- 3. Select the proper strength Loctite® Threadlocker product.
- 4. Insert bolt into through hole assembly.
- 5. Apply several drops of Threadlocker onto bolt at targeted tightened nut engagement area. Avoid touching bottle tip to metal.
- 6. Assemble and tighten nut as usual.



BLIND HOLES (CAP SCREWS, ETC.)

- 1. Clean all threads (bolt and hole) with Loctite® ODC-Free Cleaner & Degreaser. Allow to dry.
- 2. If necessary, spray (bolt and hole) with Primer (Refer to Technical data). Allow to dry.
- 3. Select the proper strength Threadlocking product.
- 4. Squirt several drops down the sides of the female threads.
- 5. Apply several drops to bolt. Avoid touching bottle tip to metal.
- 6. Tighten as usual.

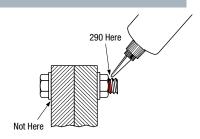
Note: Using Loctite® Threadlockers will virtually eliminate stripped threads in aluminium or magnesium housings caused by galvanic corrosion.



PRE-ASSEMBLED FASTENERS

- 1. Clean bolts and nuts with Loctite® ODC-Free Cleaner & Degreaser.
- 2. Assemble components.
- 3. Tighten nuts.
- 4. Apply drops of Loctite® 290 Threadlocker at the nut and bolt juncture.
- 5. Avoid touching bottle tip to metal.

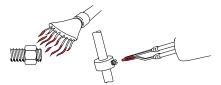
Note: For preventive maintenance on existing equipment: RETIGHTEN nuts and apply Loctite® 290 Threadlocker at the nut and bolt juncture.



HIGH STRENGTH DISASSEMBLY

- 1. Apply localised heat to nut or stud (260°C for 5 minutes).
- 2. Disassemble while HOT.

Note: Use standard hand tools for disassembly of low and medium strength Threadlockers.



Localised Heating Methods



APPLICATION PROCEDURESThread Sealing

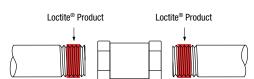
▶ STANDARD FITTINGS — PIPE, HYDRAULICS, POTABLE WATER OR AIR

- 1. Clean parts of contamination with ODC-Free Cleaner & Degreaser. If necessary, spray Loctite® Primer (Refer to Technical Data) onto threaded parts (male and female). Allow to dry. Note: Primer is not required for brass parts.
- 2. Apply a band of Loctite Product to male threads starting one to two threads from end of pipe.
- 3. Assemble parts snugly. Do not overtighten.
- 4. If initial pressure exceeds 6.9 MPa*, wait 30 minutes before pressurizing.

Note: • If sealing chemicals or strong acids/bases, refer to Fluid Compatibility Chart (pg 34-35).

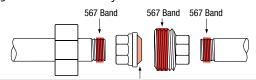
- Do not use on oxygen or strong oxidisers (chlorine).
- Refer to Loctite® Thread Sealing selector Chart (pg 8-9) for correct product selection

*Depending on conditions



► METAL PIPE UNIONS

- 1. Disassemble and if necessary, spray all components with Loctite® 7649 Primer. Allow to dry.
- 2. Apply a thin coating of 567 PST® Pipe Sealant to union face.
- 3. Apply a band of 567 PST® Pipe Sealant to male threads.
- 4. Assemble parts snugly.



Shaft Mounted Components

► SLIP FIT — LIGHT DUTY

ORIGINAL

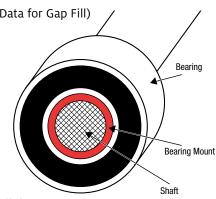
- 1. Clean all parts with Loctite® ODC-Free Cleaner & Degreaser. 2. Spray all parts (I.D. and O.D.) with Loctite® Primer (Refer Technical Data).
- 3. Apply Loctite® 641 dabs around shaft at engagement area. (Refer to Technical Data for Gap Fill)
- 4. Assemble parts as normal.
- 5. Wipe off excess.
- 6. Allow 20 minutes cure time prior to service.

WORN SHAFT

Follow directions above except:

- 1. Determine radial gap.
- 2. If radial gap exceeds 0.1mm, Loctite® Primer must be used.
- 3. Take steps to maintain concentricity with large gaps.
- 4. Larger gaps require longer cure times (30-60 minutes).
- 5. Loctite® Quick Metal® 660 is NOT recommended for radial gaps exceeding 0.5mm.

Note: Loctite® Quick Metal® 660 is very fast fixturing (30 seconds or less) with Loctite® 7471 Primer (T).



APPLICATION PROCEDURES

Formed-in-place Gasketing

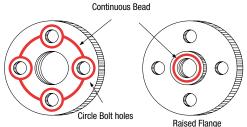


▶ SEALING CAST RIGID FLANGES

1. Remove old gasketing material and other heavy contaminants with Loctite® Chisel® Gasket Remover. use mechanical removal technique if required.

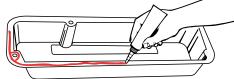
Note: Avoid grinding.

- 2. Clean both flanges with Loctite® ODC-Free Cleaner & Degreaser.
- 3. Spray Loctite® Primer (Refer Technical data) on only one surface. Allow to dry.
- 4. Apply a continuous bead of SELECTED LOCTITE® GASKETING PRODUCT to the other surface. **Note:** Circle all bolt holes with sealant, if appropriate.
- 5. Mate Parts. Assemble and tighten as required. **Note:** Immediate assembly not required; however avoid delays over 45 minutes (assemble immediately if primer is used).
- 6. Allow to cure:
 - a. No pressure immediate service
 - b. Low pressure (up to 3.45mPa) 30 to 45 minutes
 - c. High pressure (3.45 to 17.2mPa) 4 hours
 - d. Extreme high pressure (17.2 to 34.45mPa) 24 hours



► STAMPED OR SHEET METAL FLANGES

- 1. Remove old gasketing material and other heavy contaminants with Loctite® Chisel® Gasket Remover.
- 2. Clean both flanges with Loctite® ODC-Free Cleaner & Degreaser.
- 3. Apply a continuous bead of the selected Loctite® MAXX® SILICONE to sealing surface. Circle all bolt holes. **Note:**
 - Use proper bead diameter to seal flange width and depth.
 - Minimize excessive material "squeeze in".
- 4. Assemble within 10 minutes by pressing together. Tighten as required.
- 5. Clean up any excess.
- 6. Cure times will vary with temperature, humidity, and gap. Typical full cure time is 24 hours



▶ REFER TO LOCTITE® DO IT RIGHT USERS GUIDE FOR FURTHER APPLICATION PROCEDURES SUCH AS

Threadlocking

- Blind Holes (Studs, etc)
- Adjustment Screws
- Stripped Thread Repair

Thread Sealing

- Compression Fittings
- Flared / Swaged Fittings
- Hose Ends Air & Hydraulic

Puncture Sealing

• Tanks, Vessels, etc

Porosity Sealing

• Porosity in Welds and Castings

Gasket dressing

• Sealing Flanges with Gasket

Strengthen Keyed Assemblies

- Keyed Assemblies Standard & Heavy Duty
- Repair Badly Wallowed Keys

Shaft Mounted Components

- Repair Badly Worn Shaft
- Slip Fit Heavy Duty
- Press Fit

Housed Components

- Slip Fit Light & Heavy Duty
- Retaining (Large Gaps)

And More....



FLUID COMPATABILITY CHART

LIQUIDS, SOLUTIONS & SUSPENSIONS

(FOR METAL THREADED FITTINGS SEALED WITH LOCTITE® SEALANTS)

LEGEND:		Cement Slurry	Emery-Slurry		• Maleic Acid
 All Loctite[®] Anaerobic Sealants 		Ceric Oxide			
are Compatible Including #		Chalk			Manganese Sulfate
243 , 542 , 567, 569, 577		Chemical Pulp			
Use Loctite® 277		Chestnut Tanning			
Not Recommended		China Clay			
☐ < 10% (same as ●)		Chloral Alcoholate			
> 10% (same as †)	•	Chloramine	Ethyl Bromide	• Heptane	Mercuric Nitrate
> 5% (same as †)	Bagasse Fibers	Chlorinated Hydrocarbons	■ Ethyl Cellosolve §	Hexachlorobenzene	• Mercury
♦ Use Loctite® # 243, 290	Barium Acetate	Chlorinated Paperstock	Ethyl Cellosolve Slurry §	• Hexadiene	• Mercury Dry
• 050 E000to 11 E-10, E50	Barium Carbonate	Chlorinated Solvents	● Ethyl Formate	• Hexamethylene Tetramine	• Methane
brasive Coolant	Barium Chloride	Chlorinated Sulphuric Acids	Ethyl Silicate	• Hexane	Methyl Alcohol
cetaldehyde	Barium Hydroxide	☐ Chlorinated Wax	Ethylene Diamine	Hydrazine	Methyl Acetate
		Chlorine Dioxide			
cetimide	Battery Acid	☐ Chlorine Liquid:	Ethylene Dichloride	Hydrobromic Acid	🗆 Methyl Carbitol
		Chlorine (Dry)			
		Chloroacetic Acid			
		Chlorobenzene (Dry)			× Methyl Ethyl Ketone
		Chloroform (Dry)			
cetone	Benzene	Chloroformate Methyl	Fatty Acids Amine	Hydrogen Peroxide (con)	† Methyl Lactate
		Chlorosulfonic Acid			
		Chrome Acid Cleaning			
		Chrome Liquor			
		Chrome Plating Bath			
		Chromic Acid 10%			
		Chromic Acid 50% (cold) Chromic Acid 50% (hot)			Monochloracetic Acid
otivated Cilica	Rleach Liguer	Chromic Acid 50% (hot)	Formus Ovalate	Unk in Colvert Printing	Mud
		Chromium Acetate			
		Chromium Culoride			
		Classifier			
		Clay			
Icohol-Ethyl	Brine Chlorinated	Coal Slurry	Fluoride Salts	• Ion Exclusion Glycol	Naval Stores Solvent
		Coal Tar			
		† Cobalt Chloride			
		Copper Ammonium Formate			
		Copper Chloride			
		Copper Cyanide			
		Copper Liquor			
lum-Chrome	Butyl Cellosolve §	Copper Naphthenate	● Foamite	• Isopropyl Alcohol	Nickel Cyanide
lum-Potassium	Butyl Chloride	Copper Plating (Acid Process)	Formaldehyde (cold)	• Isocyanate Resin	• Nickel Fluoborate
lum-Sodium	Butyl Ether (Dry)	Copper Plating (Alk. Process)	Formaldehyde (hot)	† Isopropyl Acetate	Nickel Ore Fines
		Copper Sulfate			
		Core Oil			Nickel Sulfate
luminium Bicarbonate	Butyraldehyde	Corundum	Formic Acid (cold)	●	Nicotinic Acid
		Creosote	Formic Acid (hot)	† Jet Fuels	Nitrate Sol
luminium Chloride				† Jeweler's Rouge	
		Cyanide Solution			
		Cyanuric Chloride			Nitric Acid10%
		Cyclohexane			
		Cylinder Oils			
	Calcium Bisulfate			• Kerosene	
		De-Ionized Water			• Nitro Aryl Sulfonic Acid
	Calcium Chlorate			🕁 Ketone	
	Calcium Chloride		Gallium Sulfate		Nitrocellulose
		Detergents			
		Developer, photographic			
		Diacetone Alcohol			
		Diammonium Phosphate			
		Diamvlamine			
		Diatomaceaus Earth Slurry			
		Diazo Acetate			
		Dibutyl Phthalate			
		Dichlorophenol			
		Dichloro Ethyl Ether			
		Dicyandamide			
		Dielectric Fluid			
		Diester Lubricants			
		☐ Diethyl Ether Dry			
		Diethyl Sulfate			
		Diethylamine			
		Diethylene Glycol			
nyl Amine •	Carbonic Acid	Diglycolic Acid	Glyoxal	• LOX (Liquid 0 ₂)	X Oxalic Acid (cold)
		Dimethyl Formamide			
		Dimethyl Sulfoxide			×
niline Dyes	Carnauba Wax	Dioxane Dry	Granodine	• ·	Paint-Linseed Base
nodizing Bath	Casein	Dioxidene	Grape Pomace Graphite	Machine Coating Color	
		Dipentene-Pinene			
		Diphenyl			
.ntimony Oxide		Distilled Water (Industrial)			
	Collulado Dula	Dowtherm 8	Grit Steel	Magnesium Carbonate	Paner Board Mill Waste
ntioxidant Gasoline					
ntioxidant Gasoline	Cellulose Xanthate	Drying Oil	Gritty Water	Magnesium Chloride	• Paper Coating Slurry

FLUID COMPATABILITY CHART



LIQUIDS, SOLUTIONS & SUSPENSIONS

GASES

(FOR METAL THREADED FITTINGS SEALED WITH LOCTITE® SEALANTS)

•					
		Silver Nitrate			Acetylene
		Size Emulsion			
		Skelly Solve E, L			
		Slate to 400 Mesh			
			Stillage Distillers		
		Soap Solutions (Stearates)		Turpentine	
Paper Stocks, Fine		Soap Stone Air Blown			Butane
Paradichlorobenezene		Soda Pulp		UCON § Lube	
Paraffin Molten		Sodium Acetate		Udylite Bath-Nickel	,
Paraffin Oil		Sodium Acid Fluoride			
Paraformaldehyde	= -	Sodium Aluminate		Unichrome Sol. Alk	
Pectin Solution Acid		Sodium Arsenate			
Pentachlorethane		Sodium Benzene Sulfonate Sodium Bichromate			
Pentaerythritol Sol	Data de la Data de la Calenda	Sodium Bisulfite			
Perchlorethylene (Dry)	Detection Descriptor				
Perchloric Acid		Sodium Carbonate			Chlorine (Dry)
Perchloromethyl Mercaptan	Potaccium Cilicato	Sodium Chlorate		Vacuum below 100 Micron	
Permanganic Acid	Potaccium Sulfata	Sodium Chlorite		Vacuum Oil	
Persulfuric Acid	Potaccium Yanthata	Sodium Cyanide			
Petroleum Ether		Sodium Ferricyanide			
Petroleum Jelly		Sodium Formate			
Phenol Formaldehyde Resins		Sodium Glutamate			
Phenol Sulfonic Acid		Sodium Hydrogen Sulfate		¥ Versene §	
Phenolic Glue		Sodium Hydrosulfite			Ethylene
Phloroglucinol		Sodium Hydrosulfide			
Phosphate Ester		Sodium Hydrochloride		Vinvl Chloride Latex Emul	
Phosphatic Sand		Sodium Hydroxide			
Phosphoric Acid 85% (hot) 3		Sodium Hydro. 20% (cold)			Furnace Gas (Cold)
Phosphoric Acid 85% (cold)		Sodium Hydro. 20% (hot)		Vortex-Hydroclone	
Phosphoric Acid 50% (hot)			† Taconite-Fines	•	Turnuoc dus (riot)
Phosphoric Acid 50% (cold)	† Pyromellitic Acid		Talc-Slurry	■ Water-Acid – Below pH7	Gas Drip Oil
Phosphoric Acid 10% (cold)		Sodium Hydro. 70% (cold)			
Phosphoric Acid 10% (hot)		Sodium Hydro. 70% (hot)	Tannic Acid (cold)	† Water Alkaline – Over pH8	
Phosphorous Molten		Sodium Hypochlorite			Gas Natural
Phosphotungstic Acid	Rag Stock Bleached	Sodium Lignosulfonate	Tar & Tar Oil	Water Potable	>
Photographic Sol	Rare Earth Salts	Sodium Metasilicate	Tartaric Acid	● Water River	• Helium
Phthalic Acid		Sodium Molten		Water Sandy	Hydrogen Gas - Cold
Phytate	Rayon Spin Bath	Sodium Nitrate			
Phytate Salts		Sodium Nitrite-Nitrate			Hydrogen Cyanide
Pickling Acid, Sulfuric		Sodium Perborate			■ Hydrogen Sulfide – Wet & Dry ●
Picric Acid Solutions	River Water				•
Pine Oil Finish		Sodium Persulfate		Wax Emulsions	
Plating Sol. as follows:		Sodium Phosphate-Mono		Weed Killer Dibromide	
Brass Cyanide		Sodium Phosphate-Tri		 Weisberg Sulfate Plating 	
Bronze-Cyanide		Sodium Potassium Chloride			
Chromium & Cadmium		Sodium Salicylate			Natural Gas – Dry
Cyanide	Rubber Latex		Thioglycollic Acid		Nitrogen Gas
Cobalt Acid		Sodium Silicate		A-may Developing Dam	Nitrous Oxide
Copper Acid	·	Sodium Silcofluoride		Xylene	
Copper Alk		Sodium Stannate			Oil-Solvent Vapor
Gold Cyanide		Sodium Sulfate		Zelan	● Oxygen 🗙
Iron-Acid	· · ·	Sodium Sulfide		Zeolite Water	Ozone *
Lead-Fluoro				Zinc Acetate	•
Nickel Bright					Producer Gas 50 PSI
Platinum		Sodium Thiocyanate Sodium Thiosulfate			
Silver-Cyanide		Sodium Triosultate		Zinc Cyanide-Alk	Propylene
Tin-Acid	· .	Sodium Xanthate		Zinc Fines Slurry	•
Tin Alk. Barrel		Solox-Denat. Ethanol		Zina Eluy Doota	Steam High Pressure (≤ 70 psi) ×
Zinc Acid	"	Soluble Oil		7: 0 . 1	Steam Low Pressure (≤ 70 psi) ●
Zinc Alk. Cyanide	·	Soluble VII			Sulfur Dioxide
Polyacrylonitrile Slurry		Sorbic Acid			Sultur Dioxide Dry
Polypentek		Sour Gasoline			Sulfur Trioxide Gas
Polysulfide Liquor		Soybean Sludge-Acid			Sulfuric Acid Vapor
Polyvinyl Acetate Slurry		Spensol Solution		-	· •
i ory viniyi omorido		Stannic Chloride			
Porcelain Frit	Silver Indide-Agu	Starch	Trichlorethylene-Dry		-
Potash	Sliver lodide-Aqu	Starcn	ricniorethylene-Dry	Zirconyi Sulfate	•

NOTE: 1. The above information does not constitute a recommendation of sealant use. It is intended only as a guide for consideration by the purchaser with the expectation of favorable confirming test results. It is impossible to test sealant reaction with the multitude of chemicals in existence, therefore, compatibility has been estimated based on a wide variety of customer experience

- 2. With the stringent action of such chemicals as Freon §, strong cold acids and caustics, thorough evaluation is suggested. Sealing of hot corrosive chemicals is not recommended.
- 3. Contact Henkel Corporation for use with chemicals not covered by this information.

§ Listing(s) may be Brand Name(s) or Trademarks for chemicals of Corporations other than Henkel. Freon is a reg. trademark of E.I. DuPont de Numours, Co., Inc.

Loctite® product numbers in red are worldwide or application-specific products.

against any hazards that may be involved in the handling and use thereof.

(This is a list of chemical stability only. It does not constitute approval for use in the processing of foods, drugs, cosmetics, pharmaceuticals, and ingestible chemicals.)

Loctite® sealants are not recommended for use in pure oxygen or chlorine environments or in conjunction with strong oxidising agents, an explosive reaction can result. 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

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LOCTITE. BONDERITE. TECHNOMELT. TEROSON. AQUENCE.

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