

LOCTITE®
BONDERITE®
TECHNOMELT®
TEROSON®

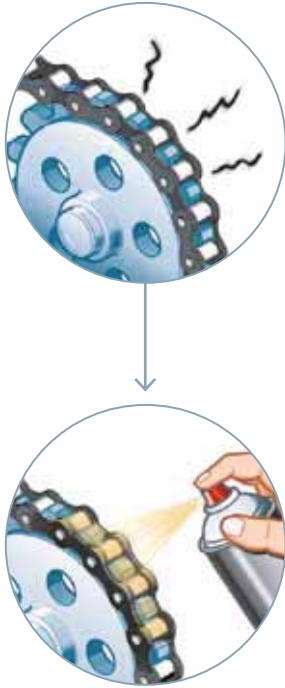
Product Selector

Industrial Adhesive, Sealant and
Functional Coating Solutions



Lubrication

Lubrication and Protection



Why Use a LOCTITE lubricant?

LOCTITE lubricants offer superior protection for industrial plants and equipment. The range includes organic, mineral and synthetic based products meeting the requirements of industrial applications.

What is the function of a lubricant?

The typical function of a lubricant is to protect against friction and wear. Lubricants are also used to protect against corrosion by displacing moisture and leaving a continuous coating on the part.

What considerations are important when choosing a lubricant?

When choosing a lubricant, it is important to consider the intended application as well as the environmental conditions to which the assembly will be exposed. Environmental conditions are critical to the successful selection of the right lubricant product. Factors including high temperature, harsh chemicals and contaminants may have an adverse effect on the expected lubricant performance.

LOCTITE anti-seize products

LOCTITE anti-seize products provide protection in harsh environments and operating conditions, e.g. extreme temperatures and corrosive attack. They prevent fretting and galvanic corrosion. They can also be used as a running in lubricant for new equipment.



LOCTITE greases

LOCTITE lubricating greases have been designed to offer the following performance benefits:

- Protect against friction
- Reduce wear and corrosion
- Prevent overheating

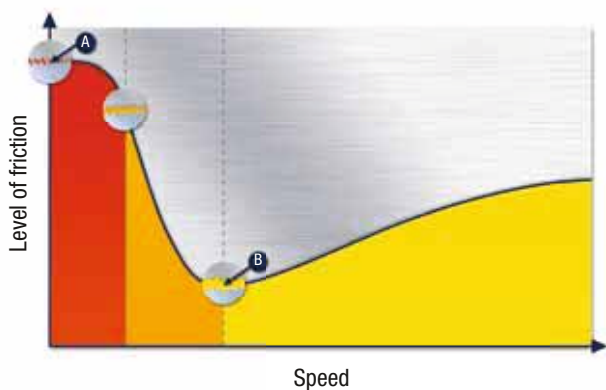
To match specific requirements, LOCTITE greases are made of mineral or synthetic base oils combined with a thickening agent, e.g. lithium soap or inorganic material such as silica gel.



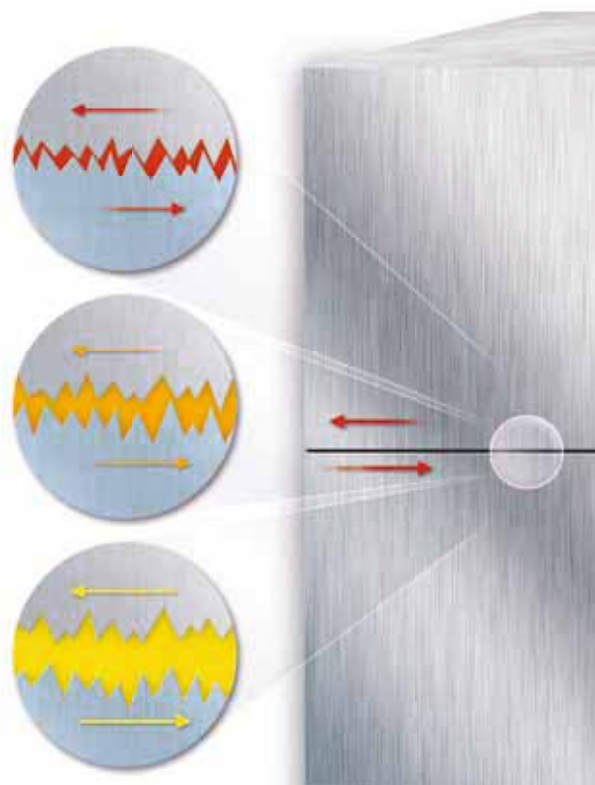
Application areas of oils, greases and anti-seizes

A lubricant needs to be chosen based on the speed, temperature and boundary friction encountered in the application concerned.

	Oils and Greases	Anti-Seizes
Speed of movement	Medium to high	Low to zero
Temperature	Up to 250°C	Up to 1,300°C
Load	Low to medium	High



- Anti-seize (boundary friction)
- Grease (mixed friction)
- Oil (fluid friction)
- Ⓐ Starting friction
- Ⓑ Translation speed to fluid friction



LOCTITE oils

LOCTITE lubricating oils have been designed for moving parts in equipment ranging from major plants to mini machines. Flowability and surface adhesion ensure good lubrication at both high and low speeds within the specified temperature range.



LOCTITE dry film lubricants





MoS₂ and PTFE based LOCTITE dry film lubricants reduce friction, prevent seizing, ensure protection against corrosion and enhance the performance of oils and greases.



Anti-Seizes

Product Table

What type of Anti-Seize do you require?

Solution	General purpose		
	Aluminium anti-seize	Copper anti-seize	Heavy duty
	LOCTITE LB 8150/8151 	LOCTITE LB 8007/8008 	LOCTITE LB 8009 
Colour	Silver	Copper	Black
Solid lubricating agent	Aluminium, graphite, extreme pressure (EP) additives	Copper & graphite	Graphite & calcium fluoride
NLGI class	1	0	1
Service temperature range	-30°C to +900°C	-30°C to +980°C	-30°C to +1,315°C
Pack sizes	LB 8150: 500g, LB 8151: 400ml aerosol	LB 8007: 400ml aerosol LB 8008: 454g brush top	454g brush top
Handy Hints <ul style="list-style-type: none"> Look for this icon for metal-free anti-seize products  LOCTITE LB 8065 offers the same trusted performance in a semi-solid stick product that is clean, fast and easy to apply 	LOCTITE LB 8150 can LOCTITE LB 8151 aerosol <ul style="list-style-type: none"> Heavy duty, temperature resistant, petroleum-based lubricant compound fortified with graphite and metallic flake Inert and will not evaporate or harden in extreme cold or heat For use in assemblies up to 900°C 	LOCTITE LB 8007 aerosol LOCTITE LB 8008 brush top <ul style="list-style-type: none"> Exclusive formula with copper and graphite suspended in a high quality grease Protects metal parts from rust, corrosion, galling and seizing at temperatures up to 980°C 	LOCTITE LB 8009 brush top <ul style="list-style-type: none"> Metal-free Excellent lubricity Provides outstanding lubrication to all metals including stainless steel, aluminium and soft metals up to 1,315°C

High performance

Speciality

Water resistant

High load

High purity

Incidental food contact

**LOCTITE
LB 8023**

**LOCTITE
LB 8012**

**LOCTITE
LB 8013**

**LOCTITE
LB 8014**



Black

Black

Dark grey

White

Graphite, calcium, boron nitride & rust inhibitors

MoS₂ & rust inhibitors

Graphite & calcium oxide

White oil and extreme pressure (EP) additives

1

2

–

0

-30°C to +1,315°C

-30°C to +400°C

-30°C to +1,315°C

-30°C to +400°C

454g brush top

454g brush top

454g brush top

907g can

LOCTITE LB 8023 brush top

- Metal-free
- Formulated to protect assemblies exposed directly or indirectly to fresh water and salt water, this anti-seize product works especially well in high humidity conditions
- It has excellent lubricity, superior water wash-out spray resistance and prevents galvanic corrosion

ABS approved

LOCTITE LB 8012 brush top

- Metal-free
- Formulated to protect assemblies during running-in period
- Resists high static loads and MoS₂ paste ensures maximum lubricity

LOCTITE LB 8013 brush top

- Metal-free
- High purity formula with excellent chemical resistance
- For stainless steel
- Ideal for use in the nuclear industry

PMUC approved

LOCTITE LB 8014

- Metal-free
- Prevents seizure, galling and friction in stainless steel and other metal parts up to 400°C

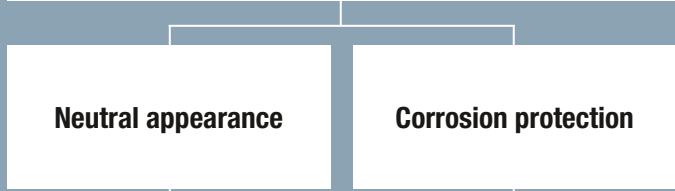
H1 NSF Reg. No.: 123004

Greases

Product Table

Solution

General purpose



	LOCTITE LB 8105	LOCTITE LB 8106
Appearance	Colourless	Light brown
Base oil and additives	Mineral	Mineral
Thickener	Inorganic gel	Lithium soap
Drop point	None	> +230°C
NLGI class	2	2
Service temperature range	-20°C to +150°C	-30°C to +160°C
Load test 4 ball N (weld load)	1,300	2,400
Pack sizes	Not available in the U.K.	Not available in the U.K.

LOCTITE LB 8105

- Mineral grease
- Lubricates moving parts
- Colourless
- Odourless
- Ideal for bearings, cams, valves and conveyors

H1 NSF Reg. No.: 122979

LOCTITE LB 8106

- Multi-purpose grease
- Lubricates moving parts
- Provides corrosion protection
- For rolling/plain bearings and slideways

High performance

Special purpose

High temperature resistance

Heavy load applications

Plastic part applications

Chains, gears

LOCTITE
LB 8102

Light brown

Mineral, EP

Lithium soap complex

> +250°C

2

-30°C to +200°C

3,300

Not available in the U.K.

LOCTITE LB 8102

- High-temperature grease
- Prevents wear and corrosion
- Suitable in humid environmental conditions
- Withstands heavy loads at medium and high speeds
- Lubricates rolling/plain bearings, open gears and slideways

LOCTITE
LB 8103

Black

Mineral oil, MoS₂

Lithium soap

> +250°C

2

-30°C to +160°C

3,600

Not available in the U.K.

LOCTITE LB 8103

- MoS₂ grease
- For moving parts at all speeds
- Withstands vibration and heavy loads
- For highly stressed joints, plain and roller bearings, socket joints and slideways

LOCTITE
LB 8104

Colourless

Silicone

Silica gel

-

2/3

-50°C to +200°C

-

75ml tube, 1 ltr can

LOCTITE LB 8104

- Silicone grease
- Valve and packing grease
- Wide temperature range
- Lubricates most plastic and elastomeric components

H1 NSF Reg. No.: 122981LOCTITE
LB 8101

Amber

Mineral oil, EP

Lithium soap

> +250°C

2

-30°C to +170°C

3,900

Not available in the U.K.

LOCTITE LB 8101






- Chain lubricant
- Adhesive grease for open mechanical systems with anti-fling properties
- Protects against water ingress
- Excellent wear and high pressure resistance
- Lubricates chains, open gears and worm screws

Dry Films and Oils

Product Table

Solution	Dry film lubricant		Penetrating oil		Chain lubricant	
	General purpose	Non-metal surface	Penetrating oil	Chain lubricant		
	LOCTITE LB 8191	LOCTITE LB 8192	LOCTITE LB 8001	LOCTITE LB 8011		
Appearance	Black	White	Colourless	Yellow		
Base	MoS ₂	PTFE	Mineral oil	Synthetic oil		
Viscosity	11 s (Cup 4)	11 s (Cup 4)	4 cSt	11.5 cSt		
Service temperature range	-40°C to +340°C	-180°C to +260°C	-20°C to +120°C	-20°C to +250°C		
Load test 4 ball N (weld load)	–	–	1,200	2,450		
Pack sizes	400ml aerosol	Not available in the U.K.	Not available in the U.K.	Not available in the U.K.		
	<p>LOCTITE LB 8191</p> <ul style="list-style-type: none"> MoS₂ anti-friction coating – aerosol Quick drying Surface protection against corrosion Enhances the performance of oils and greases 	<p>LOCTITE LB 8192</p> <ul style="list-style-type: none"> PTFE coating For non-metal and metal surfaces Creates sliding surface for free movement Prevents dust/dirt accumulation Protection against corrosion For conveyor belts, slideways and cams <p>H2 NSF Reg. No.: 122980</p>	<p>LOCTITE LB 8001</p> <ul style="list-style-type: none"> Penetrating mineral oil spray Multi-purpose penetrating oil for micro-mechanisms Penetrates inaccessible mechanisms Lubricates valve seats, collars, chains, hinges and cutting blades <p>H1 NSF Reg. No.: 122999</p>	<p>LOCTITE LB 8011</p> <ul style="list-style-type: none"> High-temperature chain oil spray Oxidation resistance prolongs lubricant service life Lubricates open mechanisms, conveyors and chains at elevated temperatures up to 250°C <p>H2 NSF Reg. No.: 122978</p>		

Oil

Silicone oil	Cutting oil	All-round cutting fluid	General purpose	Special purpose
LOCTITE LB 8021	LOCTITE LB 8030/8031	LOCTITE LB 8035	LOCTITE LB 8201	LOCTITE LB LM416
				
Colourless	Dark yellow	Brownish liquid	Light yellow	Green
Silicone oil	Mineral oil	Emulsifier	Mineral oil	Mineral oil
350 mPa·s	170 cSt	Low	17.5 cSt (+50°C)	–
-30°C to +150°C	-20°C to +160°C	–	-20°C to +120°C	-10°C to +60°C
–	8,000	–	–	–
Not available in U.K.	Not available in the U.K.	5 ltr / 20 ltr bucket	400ml aerosol	400ml aerosol, 4kg pail
LOCTITE LB 8021 <ul style="list-style-type: none"> • Silicone oil • Lubricates metal and non-metal surfaces • Suitable as release agent H1 NSF Reg. No.: 141642	LOCTITE LB 8030 bottle LOCTITE LB 8031 aerosol <ul style="list-style-type: none"> • Cutting oil • Protects cutting tools in operation • Improves surface finish • Increases tool life • For drilling, sawing or tapping steel, stainless steel and most non-ferrous metals 	LOCTITE LB 8035 <ul style="list-style-type: none"> • Water-miscible and bactericide-free • With patented emulsifier system • Very good corrosion protection and high process economy • For drilling, turning, sawing, milling, threading, grinding • Suitable for a broad range of materials: steel, high-alloy steel, cast iron and non-ferrous metals, including brass and aluminium alloys 	LOCTITE LB 8201 <ul style="list-style-type: none"> • Five-way spray • Frees assemblies • Lubricates metal • Cleans parts • Displaces moisture • Prevents corrosion 	LOCTITE LB LM 416 <ul style="list-style-type: none"> • Biodegradable track lubricant • Superior corrosion protection • Applicable in any season • Long intervals between applications • Mainly used for slide chair lubrication Approved by Network Rail, UK