



# Silicone Grease NLGI#1 O-Ring & Valve Lubricant

100% Polydimethylsiloxane compound to lubricate o-rings, gaskets, valves and seals



NLGI#1 O-Ring Grease has the lightest consistency of the silicone greases. It is preferred for lubricating scuba suits and equipment.

**Silicone Grease NLGI#1 O-Ring & Valve Lubricant** (Silicone Compound) is an NLGI #1 (lowest stiffness) Silicone Grease, formulated with Polydimethylsiloxane (CAS # 63148-62-9) and inert silica filler. It is used in a variety of applications that require: wide range of thermal stability, high dielectric strength, electrical insulation, inertness to rubber and plastic surfaces, and insulation against corrosion and moisture.

**Silicone Grease NLGI#1** is inert to virtually all substrates with the exception of silicone rubber. \* It is often used for lubricating o-rings, gaskets, valves and seals as well as surfaces that require excellent lubricating properties over long periods without drying out. It is not recommended for metal-to-metal lubrication or on surfaces that will be painted or finished.

\*Swelling may occur

NLGI is a measure of the stiffness of silicone grease with NLGI 1 being the least stiff and NLGI 3 being the stiffest. Due to its light consistency, NLGI#1 is the preferred consistency for lubricating and insulating scuba wet suits and equipment. However, if stiffer grease is preferred, we also carry an NLGI#2 (Silicone Grease 3005) as well as an NLGI #3.

### Typical Properties

Property	Range	Typical value
Color	White to translucent	White to translucent
NLGI rating		NLGI#1
Specific gravity		1.00
Temperature range		-57°C to 200°C
Bleed	5% maximum	0.9%
Evaporation	3% maximum	1.9%
Penetration	200 to 300	275
Dielectric constant	2.7	3.1 max
Dielectric strength		>510 volts/mil

### Applications

- O-ring lubricant
- Gasket lubricant
- Valve lubricant
- Insulates against moisture and extreme weather conditions
- Waterproofing grease
- Dielectric grease
- Lubricating spark plug boots
- Lubricating and insulating electrical connectors
- Damping medium for electronic equipment
- Sealant for pressure systems
- Lubricant for rubber cables and plastic cables
- Lubricating scuba wet suits and scuba equipment

### O-Ring Compatibility

Aflas (0)	Natural Rubber (4)
Chemraz (4)	Polyacrylate (4)
Kalrez (4)	Polyurethane, millable (4)
Nitrile, Hydrogenated (4)	Teflon, virgin (4)
Polyurethane, Cast (0)	Butyl (4)
Styrene Butadene (4)	Ethylene-propylene (4)
Buna-N (Nitrile) (4)	Hypalon (4)
Epichlorohydrin (4)	Neoprene (4)
Fluorosilicone (4)	Polysulfide (4)
Silicone (2)	Vamac (4)

(4) Good, both for static and dynamic seals  
 (3) Fair, usually OK for static seals  
 (2) Sometimes OK for static seals, not OK for dynamic seals  
 (1) Poor  
 (0) No Data

### Packaging

- 1 lb. plastic pail
  - 8 lb pail (1-gallon)
  - 40 lb pail (5-gallon)
- FOB Phila, PA U.S.A.

### Limitations

Do not use with highly oxidative chemicals such as liquid oxygen, chlorine or peroxides, nor surfaces to be painted. Not for use as a lubricant for metal-to-metal surfaces

### Storage & Shelf-Life

When stored in original unopened container at or below 100°F, Clearco has a shelf life of 12 months from date of shipment. Extended storage life is probable. Containers should always be kept sealed when not in use.

### For More Info, Contact:

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