



Silicone Grease NLGI#3 O-Ring and Valve Lubricant

Ultra-still consistency to lubricate o-rings, gaskets, valves and seals...100% silicone compound



Extremely stiff 100% silicone grease compound for o-rings, gaskets, valves and seals.

Silicone Grease NLGI#3 O-Ring and Valve Lubricant (Silicone Compound) is an NLGI #3 (stiffest consistency) Silicone Grease, formulated with polydimethylsiloxane (CAS # 63148-62-9) and inert silica filler.

The NLGI#3 rating is the stiffest silicone grease and used in applications where high vacuum and high pressure are present. Due to its ultra stiff consistency, it will not wash off easily, and is extremely tenacious in staying on the surface. *If you require 100% silicone grease that is not as stiff, we offer the 3005 (NLGI#2).*

Silicone Grease NLGI#3 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, corrosion and moisture resistance,

Silicone Grease NLGI#3 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

Typical Properties

Property	Range	Expected
Color	White - translucent	White to translucent
Specific gravity	1.01 to 1.09	1.03
Bleed (200C/24hrs)	1% maximum	0.03%
Evaporation (200°C/24hrs)	2% maximum	0.07%
Temperature range		-40°C to 204°C
Penetration mm/10	200 to 300	251
NLGI rating		NLGI#3
Dielectric Constant (100kHz)		2.2
Dielectric strength: 50 Mil gap 10 mil gap		530 volts/mil 800 volts/mil
Volume Resistivity (ohm-cm)		4.0 x 10 ¹⁴
Dissipation Factor (100kHz)		0.0016
Water washout ASTM D1264		1.30%

Applications

- O-ring lubricant
- Gasket lubricant
- Valve lubricant
- High vacuum grease
- Damping medium for electronic equipment
- Sealant for pressure systems
- Lubricant for rubber cables and plastic cables
- Ultra-stiff grease that will not wash away from surface

FDA Certification

Meets FDA 21 CFR 178.3570 Lubricants for Incidental Food Contact

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

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.

Packaging

1 lb. plastic pail
8 lb pail (1-gallon)
40 lb pail (5-gallon)

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