



PolySi® G-MAN® Lubricants

Division of PolySi® Technologies



Technical Data Sheet

PST-599

Silicone Lubricant



FEATURES

- Resistant to a wide range of chemicals; generally resistant to mineral and vegetable oils, air, dilute acids, alkalines, most aqueous solutions and moisture
- Serviceable consistency from -40° to 204°C (-40 to 400°F)
- Practically nonvolatile
- Odorless
- Resistant to a variety of organic and inorganic chemicals
- Excellent rubber lubrication
- Excellent release and sealing properties
- NSF® Registered for Standard 61

COMPOSITION

- Silicone oil
- Inorganic thickener
- Various additives

APPLICATIONS

- Lubricant for rubber and plastic O-Rings (Non-silicone)
- Lubricant for water softener and faucet valves
- Mold release where high temperature molds stick to dies and plates.

CERTIFICATION

- Classified ANSI/NSF Standard 61
- FDA 21 CFR 178.3570 Lubricants for Incidental Food Contact
- Meets the requirement for WRAS
- USDA H1 & CNERNA Guide 1992 (France)

HOW TO USE

Can be applied manually to clean, dry substrates using conventional grease application methods, including brush, grease gun, or automatic dispensing.

PST-599 Silicone Lubricant is designed for the plumbing industry. The primary application is to lubricate the snap ring and O-rings in faucets. It possesses excellent water washout properties that keeps the material in place, and prevents the O-Rings from drying out, cracking and becoming brittle. It is certified and listed NSF for Standard 61, the new requirement for the plumbing industry.

TYPICAL PROPERTIES

The values reported on this sheet should not solely be used for preparing specifications on this product. Please contact PolySi® Technologies for assistance in preparing a specification.

Property	Test Method	Typical Value	Range
Color		White to Translucent	
Specific Gravity	CTM	1.03 g/cm ³	
Bleed (200°C /24hrs)	CTM	0.03%	< 2%
Evaporation, (200°C /24hrs)	CTM	0.07%	< 2%
Penetration, mm/10	ASTM D 217	255	200 - 300
Service Temperature Range		-40° to 204°C	

CTM: Corporate Test Method, copies of CTMs are available on request.

STORAGE

PST-599 should be stored at or below 77°F to maintain a maximum shelf life of 60 months from date of manufacture.

LIMITATIONS

PST-599 should not be applied to any surface to be painted or finished. Coatings may not adhere to the silicone-treated surfaces. If contaminated by a silicone coating, parts can be wiped or washed with solvent or detergent. Should not be applied to O-rings or other components made of silicone rubber because they can deteriorate the silicone rubber. Will also slightly swell natural butyl rubbers. Any rubber should be tested for excessive swell or shrink. Not intended for use with liquid oxygen or other strong oxidizing chemicals and should not be used in applications requiring LOX compatibility. This product is not tested, nor approved for medical or pharmaceutical uses, but can be used for medical equipment upon testing.

PACKAGING

PST-599 is available in 55 gallon drums (400 lb); 5 gallon pails (40 lb); 1 gallon pails (8 lbs.); 2 & 3 oz. tubes; Mini or PolyPaks, ½ -14 gram; pint jars and grease cartridges.

Special packaging and private labeling is available upon request.