

# Valve Sealing Lubricant

- Primary Use: Lubrication of O-Rings & elastomeric components in valves & other sealing applications and assemblies
- Non-Swelling grease (NOT for use on silicone elastomers)
- Service Temperature -40° F to 400° F
- Silicone Grease
- NOT a bearing grease
- Translucent paste
- Specific Gravity 1.03
- Penetration range 200-300
- Bleed max - 1%
- NSF 61



### Standard package sizes:

ITEM #	SIZE	NOTE
20005	5.3oz Tube	12 Tubes Per Standard Box
20006	14.1oz Cartridge	Grease Gun Cartridge
20008	8 lb Pail	Plastic Pail
20009	5 Gallon Pail	Plastic Pail
20010	55 Gallon Drum	Metal Drum

## JIT Silicones +

P.O. Box 24  
Mars, PA 16046  
Phone: (855) JIT-PLUS (855) 548-7587

[www.jitsiliconesplus.com](http://www.jitsiliconesplus.com)

### Available from:

# TECHNICAL DATA SHEET

## Valve Sealing 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) pressure and vacuum service
- Practically nonvolatile
- Odorless
- Resistant to a variety of organic and inorganic chemicals
- Excellent rubber lubrication
- Electrically insulating
- Excellent release and sealing properties
- Resistant to oxidation
- NSF® Registered for Standard 61
- Comparable to Dow Corning® High Vacuum/111



### 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.
- Vacuum Service - sealing & lubricating in High vacuum service

### CERTIFICATION

- Classified ANSI/NSF Standard 61
- FDA 21 CFR 178.3570 Lubricants for Incidental Food Contact

### HOW TO USE

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

*Valve Sealing Lubricant* is a silicone lubricant suitable for use in the plumbing industry, for lubrication of plug, gate, ball, butterfly and automated valves, as well as pump packings, rubber and plastic o-rings & both high vacuum and pressure systems. It also has excellent dielectric properties for use in electronic equipment. It possesses excellent water washout properties that keeps the material in place, and prevents O-Rings from drying out, cracking and becoming brittle. It is certified and listed NSF for Standard 61.

### TYPICAL PROPERTIES

The values reported on this sheet should not solely be used for preparing specifications on this product. Please contact JIT Silicones Plus for assistance in preparing a specification.

Property	Test Method	Typical Value	Range
Color		White to Translucent	
Specific Gravity	CTM	1.03 g/cm	
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
Dielectric Constant, (100kHz)	ASTM D 150	2.2	
Dielectric Strength, 50 Mil Gap	ASTM D 150	530 V/mil	
Dielectric Strength, 10 Mil Gap	ASTM D 150	800 V/mil	
Volume Resistivity (ohms-cm)	ASTM D 257	4.0 x 10	
Dissipation factor (100 kHz)	ASTM D 150	0.0016	
Service Temperature Range		-40° to 204°C	

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

### LIMITATIONS

*Valve Sealing Lubricant* 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.

### PACKAGING

*Valve Sealing Lubricant* is available in 55 gallon drums (400lb); 5 gallon pails (40lb); 1 gallon pails (8lbs.); 5.3 oz. tubes; & miniature packets of various sizes.

#### Usable Life & Storage --

When stored at or below 32°C (89.6°F), this product has a minimum usable life of 60 months from date of production.

**Handling Precautions - See Safety Data Sheet (SDS)**

**Limited Warranty - Please Read Carefully**The information contained herein is offered in good faith and is believed to be accurate. However, Because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that JIT Silicones + (JIT) products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

JIT's sole warranty is that the product will meet the sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. JIT SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. JIT DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.