

Technical Data Sheet

PR5507

Low Consistency Silicone Valve & O-ring Lubricant

FEATURES

- Highly water repellent
- High dielectric strength
- Low volatility
- Good thermal oxidation and chemical stability
- Retains its grease like consistency from -57°C - 204°C (-70°F - 399°F)
- Odorless
- Adheres readily to dry metals, ceramics, rubber, plastics and insulating resins

COMPOSITION

- Silicone fluids
- Silica filler

APPLICATIONS

PR5507 Low Consistency Silicone Valve & O-ring Lubricant can be used in applications including:

- Mold release agent for foundry shell and core molds
- A moisture proof seal for aircraft, automotive and marine ignition systems and spark plug connections
- Break-in treatment for bladders on tire presses
- Rubber lubricant and preservative
- Release agent for adhesives and glues
- Airframe lubricant
- Cable-pulling lubricant to draw rubber-covered cable through conduit
- Release agent for plastic extruders and processing equipment
- Release agent for plastic film packaging machines
- Used as a seal and lubricant for:
 - Cable connectors
 - Battery terminals
 - Rubber door seals
 - Switches

CERTIFICATION

- FDA title 21 CFR175.357 Lubricants for Incidental Food Contact

PR5507 Low Consistency Silicone Valve & O-ring Lubricant is a grease-like compound containing an inert silica filler in combination with selected polydimethyl silicone fluids designed to provide superior release characteristics on rubber and plastic substrates while maintaining the excellent dielectric properties inherent with silicone compounds. Formulated to provide corrosion protection from materials such as aluminum, lead magnesium alloys, solder, steel, zinc, and copper.

TYPICAL PROPERTIES

The values reported on this sheet should not solely be used for preparing specifications on this product. Please contact PremierRepak, Inc. for assistance in preparing a specification.

Property	Test Method	Typical Value	Range
Color		Translucent Paste, Homogeneous	
NLGI Grade	ASTM D 217	#1	
Specific Gravity at 25°C	CTM	1.0 g/cm ³	
Bleed, (200°C /24hrs)	CTM	0.9%	5% max
Evaporation, (200°C /24hrs)	CTM	1.9%	5% max
Penetration, worked x 60	ASTM D 217	275	230-320
Temperature Range		-57° to 204°C	
Melting Point		None	
Electrical Properties			
Dielectric constant, (100kHz)	ASTM D 150	2.7	3.1 max
(100 HTZ)	ASTM D 150	2.98	3.1 max
Dielectric Strength, 50 Mil Gap	ASTM D 149	510V/mil	
Volume Resistivity, (ohm-cm)	ASTM D 257	1.25x10 ¹⁴	1.0x10 ¹³
Arc Resistance, seconds	CTM	94	
Dissipation Factor, (100kHz)	ASTM D 150	<0.0008	0.0025 max
(100 HTZ)		0.00013	

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

LIMITATIONS

Should not be applied to any surface to be painted or finished. Coatings may not adhere to the silicone-treated surfaces. This product is not tested, nor approved for medical or pharmaceutical uses.

PACKAGING

PR5507 is available in 150g tubes; 400g grease cartridges; 3.6kg pails and 18.1kg pails.

Special packaging and private labeling is available upon request.