

Technical Data Sheet

PR5502

High Vacuum Silicone Compound

FEATURES

- Good lubricating and sealing ability
- Low volatility
- Excellent resistance to water, chemicals, high and low temperatures

COMPOSITION

- Silicone oil
- Inorganic thickener

APPLICATIONS

- Seals and lubricates chemical processing equipment
- Lubricating plug valves, control valves, flow meter bearings, ceramic plug cocks, fire extinguisher valves, water treating equipment, synthetic rubber gaskets and seals in high temperature applications.
- Lubricating O-rings in binoculars and telescopes. Prevents fogging of delicate lenses.

HANDLING PRECAUTIONS

In case of eye contact, flush eyes with water.

SOLUBILITY

PR5502 is insoluble in water, methanol, ethanol, acetone, glycol and glycerine. It can be dispersed in kerosene, Stoddard solvent, benzene, toluene, ethyl ether of petroleum ether

CHEMICAL RESISTANCE

PR5502 Grease is unaffected by most vegetable and minerals oils, many organic compounds, and most common gases. It is also resistant to most aqueous solutions of inorganic salts and to dilute acids and alkalis. This material should always be tested before it is adopted for regular use.

PremierRepak, Inc. **PR5502 High Vacuum Silicone Compound** is a grease like material containing inert silica filler in combination with dimethylpolysiloxane fluid. PR5502 has excellent dielectric properties, is highly water repellent, resistant to oxidation and is nontoxic, noncuring and nonmelting.

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
Color		White to grey translucent
Penetration unworked	ISO 2137	175-210
Temperature Range		-40-204C
Specific Gravity at 25°C		1.03
Bleed%, (200°C /24hrs)	CTM 0033A A	<0.5
Penetration, worked x 60, max	ISO 2137	260
Evaporation%, (200°C /24hrs)	CTM 0033A A	<2.0
Dielectric constant, (100kHz)	ASTM D150	3.1
Dielectric Strength, 0.01" Gap 50 mil Gap		<600V/mm
Volume Resistivity, (ohm-cm)	ASTM D 257	2.5 x10 ¹⁴
Dissipation Factor, (100kHz)	ASTM D 150	0.007
Service Temperature Range		-40° to 204°C (-40° to 400°F)

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

USABLE LIFE AND STORAGE

PR5502 has a shelf life of 60 months when kept in its original sealed container at temperatures at or below 30°C

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

PACKAGING

PR5502 is available in 150g tubes; 400g grease cartridges; 3.6kg pails and 18.1kg pails.

Special packaging and private labeling is available upon request.