

DIELECTRIC SILICONE GREASE

Chemplex 710

Product Description

DESCRIPTION

Chemplex 710 is part of a large series of fine synthetic based materials each formulated with specially selected inert silica thickeners to enhance its physical and chemical properties. Smooth tacky and grease like, **Chemplex 710** silicone compound is characterized by exceptional resistance to corrosive environments, acids and solvents. **Chemplex 710** is resistant to a variety of chemicals and is compatible with most plastics and rubbers. **Chemplex 710** has broad temperature range of -40 to 400°F (-40 to 204°C) which allows for use even in the most harsh environments.

APPLICATIONS

Chemplex 710 Silicone compound is resistant to oxidation, thermal degradation and a broad range of chemicals. Because it is inert to rubber and other elastomers, it is particularly useful for lubricating o-rings, gaskets and seals in pumps, mixers and valves. Electrical connectors, splices, terminations, switch gear, battery terminals, auto ignition components and a myriad of other electrical devices stay moisture sealed in this high dielectric medium.

CHARACTERISTICS

Property	Test Method	Condition	Typical Value
Appearance			White/Trans. paste
NLGI			1
Specific Gravity	NFO Method	25° C/25° C	1.0
Unworked Penetration	ASTM D-217	77° F	300
Worked Penetration	ASTM D-217	60 Strokes 77° F	325
Bleed, %	FTM-791.321-3	24 hrs. @ 200° C	2.0
Evaporation, %	FTM-791.321-3	24 hrs. @ 200° C	2.0
Dielectric Strength, volts/mil	ASTM D-149	0.05" Gap	385
		0.01" Gap	675
Dielectric Constant	ASTM D-150	50 Hz	2.93
		1000 Hz	2.86
Dissipation Factor	ASTM D-150	50 Hz	0.0003
		1000 Hz	0.0005
Volume Resistivity, Ohm-cm	ASTM D-257	RT	1.0 X 10 ¹⁴
Arc Resistance, sec	ASTM D-495	RT	118
Temperature Range			-40 to 204°C (-65 - 400°F)
Breakdown Voltage, volts	ASTM D-149	0.05" Gap, 50% RH	19,500
		0.01" Gap, 50% RH	6,900
Thermal Conductivity	ASTM D-177	36°C	1.2x10 ⁻³

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AVAILABILITY

Chemplex 710 is available in 5.3 oz tubes, 14 oz. grease gun cartridges, 1 pound jars, 8 pound cans, 5 gal (40 pound) pails, & 55 gallon (440 pound) drums. Each size is subject to stock.

How to Use

Chemplex 710 can be applied by various methods including automated pumping systems, by hand, by brushing, or by wiping. This is a thick paste material.

STORAGE

The compound should be stored at 75°F or below for periods up to one year. **Chemplex 710** has a shelf life of 1 year from date of shipment when stored in sealed container at 75°F or below. Extended storage life is probable, but the compound should be checked for consistency before use.

RESTRICTIONS

Do not use with highly oxidative chemicals such as liquid oxygen, chlorine or peroxides, nor surfaces to be painted. Not for use as a load bearing for metal to metal surfaces.

Chemical Resistance

Chemplex 710 is resistant to a wide variety of organic and inorganic chemicals including most oils and alkaline solutions. Aqueous solutions and dilute acids have little effect on **Chemplex 710**. Thorough testing should be done for each specific application to verify compatibility. This product is not recommended for use with highly oxidative chemicals such as chlorines, peroxides or liquid oxygen.

CLEANING

Spilled silicone greases and compounds will cause slippery conditions. Wipe up and clean spills immediately to prevent possible injury.

Silicone greases and compounds may be cleaned with the use of hydrophobic solvents (non-polar) such as chlorinated ethanes, toluene, hexane, or mineral spirits. They are generally unaffected by hydrophilic solvents (polar) such as alcohols, ketones, ethers, or water.

Whenever solvents are used all proper safety precautions must be observed. It is advisable to consider all solvents toxic and use them only in well ventilated areas with proper protective equipment such as goggles, gloves, clothing, and respirators. Avoid prolonged exposure to solvents. Be aware of their flammability status.

Consult applicable OSHA, EPA and other federal, state and local regulations on the use and disposal of solvents.

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