

Product Information

CHEMPLEX© 825

Description

CHEMPLEX© 825 Silicone Compound is a specially formulated grease-like product containing selected silicone oils and inert fillers. This stiff, tacky compound has excellent water repellency, dielectric properties and oxidation resistance. It is essentially non-toxic, non-melting and retains its pliability even after extended service use. CHEMPLEX© 825 has a broad temperature range of -40 to 400°F (-40 to 240°C), which allows for use in even the harshest environments. CHEMPLEX© 825 is resistant to a variety of chemicals and is compatible with most plastics and rubbers. CHEMPLEX© 825 is extremely water-resistant and withstands water washout and spray off. Can be used in extreme applications as a lubricant and a release agent or applications where resistance to moisture, thermal degradation or electrical insulation are needed.

Field of application

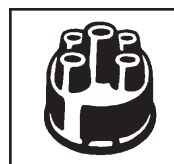
Electrical connectors, cables, seals and ignition systems, brake calipers; O rings, rubber and plastic gaskets or applications where sticking or exposure to the elements occurs. Not recommended for use with highly oxidative chemicals such as chlorine, peroxides or liquid oxygen.

Method of application

CHEMPLEX© 825 can be applied by various methods, including automated pumping systems, by hand, by brushing or by wiping. It can be applied by spraying or dipping by lowering the consistency of the product by diluting the compound with solvents such as mineral spirits, xylene, methyl ethyl ketone, toluene and chlorinated ethane. CHEMPLEX© 825 has a shelf life of four years from date of shipment when stored in a sealed container at a temperature of 75°F. Extended shelf life is possible, but material should be checked for consistency before use any excess oil should be removed.

Non-toxic, non-melting, tacky compound with excellent water repellency, dielectric properties and oxidation resistance

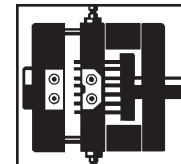
- **temperature range:**
-40 / + 400 °F
- **water-resistant and withstands water washout and spray off**
- **compatible with rubbers and plastics**
- **resistant to wide variety of organic and inorganic chemicals including most oils and alkaline solutions**



automotive applications



O rings



electrical connectors



Technical Data

CHEMPLEX© 825

Characteristics	Value	Unit	Test
Product Code	180013		
NLGI-grade	2		DIN 51818
Texture	Translucent		
Color	White		
Specific Gravity	0.96		CW10.4.71
Penetration, Unworked	270	0.1mm	ASTM D217
Penetration, Worked	280	0.1mm	ASTM D217
Roll Stability	+14	% Change	ASTM D1831
Bleed, 24 hours @ 200°C	0.8	%	FTM 791-321-3
Evaporation, 24 hours @ 200°C	1	%	FTM 791-321-3
Oxidation Stability 24 hours @ 100°C	1	psi loss	ASTM D942
Water Spray-Off @ 100°F	2.34	%	ASTM D4049
Dielectric Strength, 0.05" Gap	830	volts/mil	ASTM D149
Dielectric Strength, 0.01" Gap	890	volts/mil	ASTM D149
Dielectric Constant, 50 Hz	2.91		ASTM D150
Dielectric Constant, 1000 Hz	2.91		ASTM D150
Dielectric Withstand AL/CU, Torque 32 ft lbs	10,000		ASTM D877
Dissipation Factor, 50 Hz	0.0015		ASTM D150
Dissipation Factor, 1000 Hz	0.0016		ASTM D150
4-Ball Wear Scar 1 hour, 1200 rpm @ 167° F 40 kg load	0.54	mm	ASTM D2266
4-Ball EP Weld Point	250	kg	ASTM D2596
Volume Resistivity, RT	1.88 x 10 ¹³	ohm-cm	ASTM D257
Volume Resistivity, 177°C	1.88 x 10 ¹²	ohm-cm	ASTM D257
Breakage Voltage, 0.05" Gap	42,000	volts	ASTM D149
Arc Resistance, RT	157	sec	ASTM D495

Package size: on request

Product information furnished is based on data obtained by our own research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, or the results to be obtained from the use thereof. Seller shall not be liable for any loss or damage or liability resulting from the use of the product in the buyer's manufacturing processes or in combination with other substances.