



The SmartGrease Company

FLUOROCARBON GEL 813-1

A soft, PTFE thickened, medium viscosity, halogenated silicone grease intended for potentiometers, electrical contacts and precision instruments operating over a wide temperature range. Benefits include excellent low temperature operating characteristics.

Lubricant Properties			Typical Value	Test Method
Recommended Service Range (°C)			-70 to 200	
Thickener			PTFE	
Base Oil			Chlorophenylmethyl Silicone	
(Nyosil M-25)	Type			
	Kinematic Viscosity	100°C	19 cSt	ASTM D-445
		40°C	53 cSt	ASTM D-445
		-40°C	864 cSt	ASTM D-445
	Viscosity Index		373	ASTM D-2270
	Flash Point	°C	314	ASTM D-92
	Pour Point	°C	-73	ASTM D-97
Typical Properties of the Grease			Typical Value	Test Method
Color, Appearance			White	
Penetration (1/10 mm)	Unworked		316	ASTM D-217
	Worked	60 X	333	ASTM D-217
		10000 X	368	ASTM D-217
	NLGI Grade		1	ASTM D-217
Density		25°C	1.24 g/cm ³	NYE CTM
Oil Separation	24 hour(s)	100°C	4.6 %	FTM 791, Method 321.2
Evaporation	24 hour(s)	100°C	0.1 %	NYE CTM
		150°C	3.3 %	NYE CTM
Water Washout	60 minute(s)	80°C	0.6 %	ASTM D-1264
Copper Corrosion	24 hour(s)	100°C	1B	ASTM D-4048
Low Temp Torque	Starting Torque	-54°C	236 g/cm	ASTM D-1478
	Running Torque	10 minute(s), -54°C	118 g/cm	ASTM D-1478
		60 minute(s), -54°C	118 g/cm	ASTM D-1478
Oxidative Stability	168 hour(s)	100°C	3.4 kPa	ASTM D-942
Vapor Pressure		25°C	2.5x10 ⁻⁹ Torr	NYE CTM
		50°C	1.8x10 ⁻⁸ Torr	NYE CTM
		75°C	1.9x10 ⁻⁷ Torr	NYE CTM
		100°C	3.8x10 ⁻⁷ Torr	NYE CTM

The typical properties shown on this product data sheet should not be used as a basis for preparing specifications. Refer to our product Material Safety Data Sheet for detailed safety information. (0901)