

A PTFE thickened, heavy viscosity, perfluoropolyether grease intended for high vacuum and clean room applications, spacecraft and semiconductor manufacturing equipment. Benefits include very low vapor pressure.

Lubricant Properties		Typical Value	Test Method	
Recommended Service Range (°C)		-65 to 250		
Thickener		PTFE		
Base Oil (NyeTorr 5301)	Type	PFPE		
	Kinematic Viscosity cSt (mm ² /s)	100°C	45	ASTM D-445
		40°C	140	
		-40°C	2,300	
	Viscosity Index	345	ASTM D-2270	
Pour Point (°C)	-75	ASTM D-97		
Color, Appearance		White, Smooth		
Penetration 1/10 mm	Unworked	255	ASTM D-217	
	Worked	60 X		
	NLGI Grade	1-2		
Density	gm/cc	25°C	1.91	Nye CTM-3
Oil Separation	24 hours	100°C	5.8 %	FTM 791B, 321.2
Evaporation	24 hours	100°C	0.02 %	Nye CTM-1
Microscopic Particulate Contamination		< 300 particles/cc, < 35µm	FTM 791, 3005.3	
Vacuum Stability	24 hours, 125°C	TML (%wt)	0.320	ASTM E-595
		CVCM (%wt)	0.045	
Vapor Pressure	Torr	25°C	6 X 10 ⁻¹¹	Knudsen
		100°C	4.4X 10 ⁻⁸	
		150°C	9.5 X 10 ⁻⁷	
SRV Coefficient of Friction and Wear	100 Newtons, 50 Hz, 1 mm. stroke, 2 hrs., 40°C	Average COF	0.159	ASTM D-5707
		Disc scar (Width x Length)	0.75 mm x 1.71 mm	
		Ball scar	0.68 mm	
4 Ball Wear	60 min., 1200 RPM 75°C	20 kg	0.76 mm	ASTM D-2266
		40 kg	1.30 mm	
	Coefficient of Friction	20 kg	0.124	
		40 kg	0.103	
Low Temperature Torque (25°C) gm-cm	Starting Torque		236	ASTM D-1478
	Running Torque	10 minutes	142	
	Running Torque	60 minutes	100	

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.

(0905)