

NYE NYETORR® 5300

Ultrafiltered

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

The SmartGrease Company

Lubricant Properties			Typical Value	Test Method
Recommended Service Range (°C)			-65 to 250	
Thickener			PTFE	-
Base Oil (NyeTorr 5301)	Type		PFPE	
	Kinematic Viscosity cSt (mm²/s)	100°C	45	ASTM D-445
		40°C	140	
		-40°C	2,300	
	Viscosity Index		345	ASTM D-2270
	Flash Point (°C)		None	ASTM D-92
	Pour Point (°C)		- 75	ASTM D-97
Typical Pr	operties of the Greas	e		
Color, Appearance			White, Smooth	
Penetration 1/10 mm	Unworked		-	ASTM D-217
	Worked	60 X	235 - 310	
		10,000 X	-	
		100,000 X	-	
	NLGI Grade		1 - 3	
Density	gm/cc	25°C	1.9	ASTM D-1480
Dropping Point (°C)			-	ASTM D-2265
Oil Separation	24 hours	100°C	4.2 %	FTM 791B, 321.2
Evaporation	24 hours	100°C	< 0.1 %	ASTM D-972
Microscopic Particulate Contamination			< 300 particles/cc, <35µm	FTM 791B, 3005.3
Outgassing Mass Flow Rate (25°C)		g/sec/cm ²	3 X 10 ⁻⁹	
Vapor Pressure	torr	25°C	5 X 10 ⁻⁹	Nye CTM
		75°C	1 X 10 ⁻⁸	
		150°C	2 X 10 ⁻⁸	
4 Ball Wear	60 min., 1200 RPM	20 kg	1.06 mm	ASTM D-2266
	75°C	40 kg	1.52 mm	
Low Temperature	Starting Torque		1,508	
Torque (-40°C)	Running Torque	10 minutes	-	ASTM D-1478
gm-cm	Running Torque	60 minutes	676	
Oxidative Stability	100 hours	100°C	-	ASTM D-942
Bearing Rust Test			-	ASTM D-1743
Apparent Viscosity			-	

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. (0506)

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