



NYE RHEOTEMP 500

EP Fortified

A sodium complex soap thickened, light viscosity, ester grease intended for high speed ball bearing applications. Exceptional wide temperature performance.

The SmartGrease[®] Company

Lubricant Properties			Typical Value	Test Method
Recommended Service Range (°C)			- 54 to 175	
Thickener			Sodium Complex Soap	
Base Oil (Synthetic Oil 590)	Type		Ester	
	Kinematic Viscosity cSt (mm ² /s)	100°C	8.9	ASTM D-445
		40°C	51	
		-40°C	25,500	
	Viscosity Index		155	ASTM D-2270
	Flash Point (°C)		230	ASTM D-92
Pour Point (°C)		- 55	ASTM D-97	
Typical Properties of the Grease				
Color, Appearance			Blue-Black, Smooth	
Penetration 1/10 mm	Unworked		260	ASTM D-217
	Worked	60 X	300	
		10,000 X	-	
		100,000 X	>400	
NLGI Grade		1.5		
Density	gm/cc	25°C	0.96	ASTM D-1480
Dropping Point (°C)			202	ASTM D-2265
Oil Separation	22 hours	135°C	11.4 %	FTM 791B, 321.2
Evaporation	24 hours	100°C	1.5 %	ASTM D-972
Water Washout	60 minutes	80°C	7.25 %	ASTM D-1264
Copper Corrosion	24 hours	100°C	Passes	ASTM D-4048
4 Ball Wear	60 min., 1200 RPM 40 kg. load	75°C	0.45 mm	ASTM D-2266
		150°C	0.43 mm	
Low Temperature Torque (-40°C) gm-cm	Starting Torque		8,732	ASTM D-1478
	Running Torque	10 minutes	2,330	
	Running Torque	60 minutes	1,150	
Oxidative Stability	168 hours	100°C	68 kPa	ASTM D-942
Bearing Rust Test			-	ASTM D-1743
Apparent Viscosity			-	
Vapor Pressure		25°C	2 x 10 ⁻⁷ torr	

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. (0306)