

# NYE NYOSIL M25



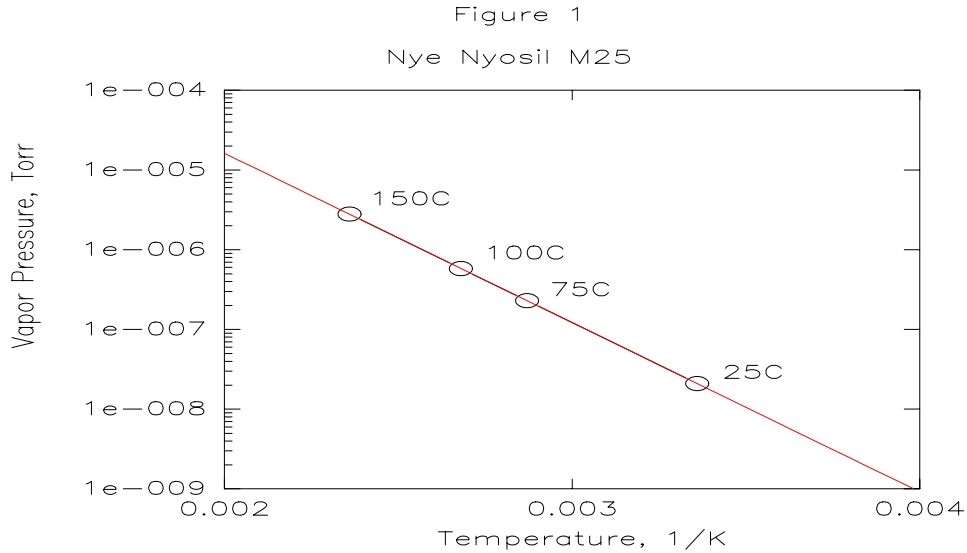
A light viscosity, halogenated silicone fluid with wide temperature capabilities and low wear characteristics. A severe service precision instrument fluid for electrical and mechanical applications. Performs significantly better under load than traditional silicone fluids.

The World Leader in Synthetic Lubricants

Lubricant Properties			Typical Value	Test Method
Recommended Service Range (°C)			- 70 to 200	
Color, Appearance			Clear to Light Straw	
Base Oil	Type		Chlorophenylmethyl Silicone	
	Kinematic Viscosity cSt (mm <sup>2</sup> /s)	100°C	20	ASTM D-445
		40°C	56	
		-40°C	-	
	Viscosity Index		374	ASTM D-2270
	Flash Point (°C)		318	ASTM D-92
	Fire Point (°C)		-	ASTM D-92
Pour Point (°C)		-	ASTM D-97	
Evaporation	6.5 hours	204°C	-	ASTM D-972
	24 hours	150°C	1 %	
Density	gm/cc	25°C	1.033	ASTM D-1480
Refraction Index		25°C	1.4245	ASTM D-1218
Neutralization #	mg KOH/g		0.01	ASTM D-974
Copper Corrosion	24 hours	100°C	-	ASTM D-4048
4 Ball Wear	60 min., 600 RPM 50 kg. load	25°C	0.6 mm	ASTM D-2266
		150°C	-	
Oxidative Stability	168 hours	150°C		FTM 5308
	Viscosity Change	40°C	-	
	Neutralization Change	mg KOH/g	-	
	Evaporation Loss		-	
	Final Appearance		-	
	Metal Weight Loss mg/cm <sup>2</sup>	Nickel	-	
		Aluminum	-	
		Copper	-	
		Brass	-	
Bronze		-		
	Steel	-		
Coefficient of Thermal Expansion		cc/cc/°C	-	ASTM D-1903
Vapor Pressure vs Temperature			See Figure 1	
Vapor Pressure		25°C	2.1 x 10 <sup>-8</sup> 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. (0205)

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Vapor Pressure at 25C =  $2.1 \times 10^{-8}$  Torr

### METAL COMBINATIONS

The selective reactivity of the halogen in the NyoSil molecule leads to good performance with some metals but unacceptable performance with certain others. The following tabulations suggest this varying suitability:

#### **NyoSil M25 is satisfactory with**

440C Stainless Steel (to 204°C)  
52100 Tool Steel  
Cast Iron  
Bronze  
Brass (to 204°C)  
Silver  
Chrome Plate

#### **NyoSil M25 is unsatisfactory with**

300 Series Stainless Steel  
Low Carbon Steel  
Aluminum  
Magnesium  
Titanium