



# NyeTorr® 6300 High Vacuum Applications

*Intended for high vacuum, semiconductor manufacturing equipment applications that require very low vapor pressure and wide temperature range.*

## PRODUCT OVERVIEW

NyeTorr® 6300 is a soft, PTFE thickened, heavy viscosity, PFPE grease. This ultrafiltered grease is intended for wide temperature, high vacuum and cleanroom applications, including semiconductor manufacturing equipment, such as guide rails, ball screws and lead screws.

## PACKAGING OPTIONS

NyeTorr® 6300 is available in:

- 30 cc clear syringe
- 500 g jar

If your application requires a specific container, please contact us for custom packaging.

## SAMPLES

NyeTorr® 6300 samples are now available. Contact your Regional Engineering Manager to discuss your application specifications.



## CHARACTERISTICS

- Excellent vacuum stability
- Low particle generation
- Low outgassing
- Very low vapor pressure

## LUBRICANT PROPERTIES

Properties		NyeTorr® 6300	Test Method
Chemistry		PFPE / PTFE	
Temperature Range		-65 to 250°C	
Color/Appearance		White, Smooth	
Kinematic Viscosity	40°C	186.8 cSt	ASTM D-445
Evaporation	24 hrs, 150°C	0.00%	CTM-1
Oil Separation	24 hrs, 150°C	8.5%	ASTM D-6184
Penetration (1/10mm)	Worked (60x)	275	ASTM D-217
	Unworked	285	
	NLGI Grade	2	

## TEST RESULTS FOR SEMICONDUCTOR INDUSTRY

- **Dynamic Particle Generation** (200 RPM): ISO Class 3
- **Knudsen Vapor Pressure** (25°C):  $7.56 \times 10^{-9}$  torr
- **Vacuum Stability** (ASTM E-595):
  - Total Mass Loss = 0.034 wt %
  - CVCM = 0.007 wt %
- **SRV** (ASTM D-5707):
  - Coefficient of Friction = 0.110
  - Ball Wear Scar = 0.68 mm

NyeTorr® 6300 is a specialized PFPE-based grease with very low vapor pressure and low outgassing, making it ideal for use in critical vacuum applications.

