



SEMICONDUCTOR & CLEANROOM GREASES

Synthetic greases designed for demanding semiconductor applications operating under extreme conditions.



Greases for Vacuum & Cleanroom Applications

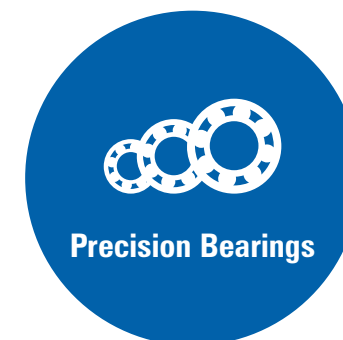
NYE HAS A WIDE RANGE OF ADDITIVES ALLOWING US TO CUSTOM FORMULATE OUR PRODUCTS FOR ANY DEMANDING APPLICATION.



Product Name	Temperature Range (°C)	Base Oil Chemistry	Thickener Type	Base Oil Viscosity ASTM D-445 (cSt)			NLGI Grade ASTM D-217	Oil Separation ASTM D-6184 (24 hrs, 100°C) (wt%)	Evaporation CTM-1 (24 hrs, 100°C) (wt%)	Vacuum Stability ASTM E-595 (125°C, 7 x 10 ⁻³ Pa, 24 hrs)		Vapor Pressure Knudsen (25°C) (Torr)	Density (g/cc)	SRV Coefficient of Friction & Ball Wear Scar (mm) ASTM D-5707 (100N, 50Hz, 1mm stroke, 2 hrs, 40°C)		Low Temperature Torque ASTM D-1478 (g.cm, 25°C)		Ultrafiltration Cleanliness Levels* (10-34 μm, particles/cc)	Dynamic Particle Generation	
				100°C	40°C	-40°C				TML (wt%)	CVCM (wt%)			CoF	Ball Scar	Starting	10-min run		1200 RPM	2400 RPM
NyeTorr® 5200	-45 to 150	Cyclopentane	PTFE	15	108	77,000	1	2.8	0.00	0.068	0.007	4.00 x 10 ⁻¹² (Base Oil)	1.05	0.114	0.44	221	274	< 300	ISO 3.1	ISO 3.6
NyeTorr® 5300	-65 to 250	PFPE	PTFE	45	140	2,300	1.5	5.8	0.02	0.320	0.045	6.00 x 10 ⁻¹¹ (Base Oil)	1.91	0.159	0.68	236	142	< 300	ISO 3.8	ISO 4.7
NyeTorr® 5300XP	-65 to 200	PFPE	PTFE	45	140	2,300	2	3.1	0.06	0.075	0.018	6.00 x 10 ⁻¹¹ (Base Oil)	1.85	0.113	0.58	207	121	< 300	ISO 4.1	ISO 4.9
NyeTorr® 6200	-45 to 150	Cyclopentane	PTFE	15	108	77,000	1	3.5	0.00	0.058	0.025	2.44 x 10 ⁻¹¹ (Grease)	1.05	0.12	0.46	207	263	< 300	ISO 3.6	ISO 4.3
NyeTorr® 6300	-65 to 250	PFPE	PTFE	56	187	5,818	2	4.8	0.02	0.036	0.006	2.79 x 10 ⁻¹² (Grease)	1.89	0.11	0.68	221	125	< 300	ISO 4.2	ISO 5.1
NEW NyeTorr® 6370EL	-90 to 250	PFPE	PTFE	103	362	TBD	2	4.7	0.00	0.063	0.001	6.29 x 10 ⁻¹⁶ (Grease)	1.83	0.174	0.91	207	94	< 400	ISO 3.6	ISO 4.2
NyeClean™ 5088	-10 to 250	PFPE	PTFE	58	800	TBD	2.5	1.6	0.00	0.39	0.022	1.00 x 10 ⁻¹³ (Base Oil)	1.91	0.364	1.29	295	162	< 500	TBD	TBD

- Extend functional life of components
- Reduce friction & wear
- Increase load-carrying capabilities

- Improve durability and reliability of mechanisms
- Ensure extremely low outgassing
- Provide excellent corrosion protection



* All greases exceed Mil-G-81937 - 10-34μm, < 1000 particles/cc.

The typical properties shown on this document should not be used as a basis for preparing specifications.



NYE TODAY

Our performance is reflected in the value we bring to our customers. Nye Lubricants is a leader in the innovation, formulation and provision of synthetic lubricants, enabling and improving breakthrough products and critical new technologies. We bring proven experience, deep technical knowledge and intense customer focus to solve our customers' toughest challenges, adding tangible value to products in a wide range of industries and applications.

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