



# SEMICONDUCTOR & CLEANROOM OILS

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



# Oils 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	Pour Point (°C)	Base Oil Viscosity ASTM D-445 (cSt)			Evaporation CTM-2 (24 hrs, 100°C) (wt%)	Vacuum Stability ASTM E-595 (125°C) (wt%)		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)		Particulate Cleanliness Levels IEST-STD-CC-1246D
				100°C	40°C	-40°C		TML	CVCM			CoF	Ball Wear Scar	
<b>NyeTorr® 5201</b>	-45 to 125	Cyclopentane	-55	15	108	80,500	0.00	0.12	0.013	4.50 x 10 <sup>-11</sup>	0.84	0.19	0.80	Level 100
<b>NyeTorr® 5301</b>	-65 to 250	PFPE	-75	45	140	2,300	0.03 (200°C)	0.23	0.033	6.00 x 10 <sup>-11</sup>	1.8	TBD	TBD	Level 50
<b>NyeTorr® 5361</b>	-50 to 250	PFPE	-53	35	192	TBD	0.00	0.03	0.010	8.18 x 10 <sup>-11</sup>	1.89	0.14	0.53	Level 50
<b>NyeTorr® 5381</b>	-40 to 250	PFPE	-30	72	809	52,806 (-10°C)	0.01	0.07	0.004	3.00 x 10 <sup>-14</sup>	1.91	0.18	0.54	Level 50
<b>NyeTorr® 6201</b>	-45 to 150	Cyclopentane	-55	15	108	80,500	0.00	0.11	0.010	6.91 x 10 <sup>-11</sup>	0.84	0.18	0.80	Level 50
<b>NyeTorr® 6301</b>	-75 to 250	PFPE	-80	56	187	5,818	0.00	0.00	0.002	2.79 x 10 <sup>-12</sup>	1.83	0.08	0.84	Level 25
<b>NEW NyeTorr® 6371</b>	-65 to 250	PFPE	-69	126	446	TBD	0.02	0.02	0.002	4.02 x 10 <sup>-13</sup>	1.83	0.10	0.66	Level 25



Extend functional life of components



Improve durability and reliability of mechanisms



Reduce friction & wear



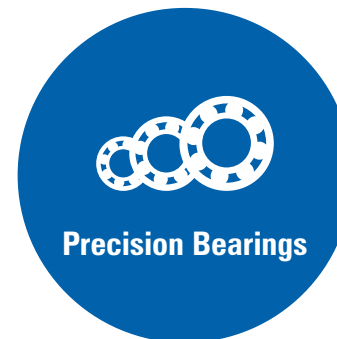
Ensure extremely low outgassing



Increase load-carrying capabilities



Provide excellent corrosion protection



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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