



AEROSPACE PRODUCTS: GREASES

Lubricants for aerospace applications are designed for extreme conditions where long life is critical for the success of the mission.



Space Greases: NYE'S CORE RANGE OF SYNTHETIC GREASES FOR AEROSPACE 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)	Evaporation CTM-1 (24 hrs, 100°C)	Vacuum Stability ASTM E-595 (125°C, 7 x 10 ⁻³ Pa, 24 hrs)		Vapor Pressure Knudsen (25°C)	Density (g/cc ³)	SRV Coefficient of Friction & Wear ASTM D-5707 (100N, 50Hz, 1mm stroke, 2 hrs, 40°C)		Low Temperature Torque ASTM D-1478 (g.cm, -40°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
NEW Rheolube® 1000	-50 to 125	Cyclopentane	Sodium Soap	8	53	24,910	2	0.29%	0.2%	2.307	0.635	1.79 x 10 ⁻¹¹ Torr	0.84	0.11	.040 mm	2,079	494	< 500	ISO 3.9	ISO 4.4
Rheolube® 1000-3PB	-50 to 125	Cyclopentane	Sodium Soap	8	53	24,910	2	1.4%	1.9%	1.82	0.208	1.02 x 10 ⁻⁹ Torr	0.89	0.11	0.53 mm	4,793	658	< 500	ISO 4.0	ISO 6.0
Fluorocarbon Gel 1000F	-50 to 150	Cyclopentane	PTFE	8	53	24,910	2	1.3%	0.22%	1.587	0.401	TBD	1.1	0.11	0.45 mm	840	287	TBD	TBD	TBD
Rheolube® 2000	-45 to 125	Cyclopentane	Sodium Soap	15	110	72,000	2	3.3%	0.10%	2.461	0.729	1.79 x 10 ⁻¹⁰ Torr	0.89	0.11	0.41 mm	265	126	< 500	ISO 4.0	ISO 6.0
Rheolube® 2000B	-45 to 125	Cyclopentane	Sodium Soap	15	110	72,000	2	5.0%	0.10%	2.117	0.647	8.18 x 10 ⁻¹² Torr	0.89	0.11	0.40 mm	2,581	601	< 500	ISO 4.0	ISO 6.0
Rheolube® 2004	-45 to 125	Cyclopentane	Sodium Soap	15	110	72,000	2	0.1%	0.10%	1.873	0.104	8.46 x 10 ⁻¹⁰ Torr	0.89	0.11	0.51 mm	4,941	778	< 500	ISO 4.0	ISO 6.0
Rheolube® 2004-LO	-45 to 125	Cyclopentane	Sodium Soap	15	110	72,000	2	0.1%	0.10%	0.772	0.268	2.45 x 10 ⁻¹⁰ Torr	0.89	TBD	TBD	TBD	TBD	< 500	TBD	TBD
Rheolube® 3000-3PB	-10 to 125	Cyclopentane	Sodium Soap	202	2,082	Below Pour Point	2	1.0%	TBD	TBD	TBD	TBD	0.89	TBD	TBD	TBD	TBD	TBD	TBD	TBD
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 Torr	1.05	0.12	0.46 mm	1,135	599	< 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 Torr	1.89	0.11	0.68 mm	221	125	< 300	ISO 4.2	ISO 5.1
NEW NyeTorr® 6350EL	-80 to 250	PFPE	PTFE	47.5	200	13,380	2	6.3%	0.06%	0.06	0.008	5.76 x 10 ⁻¹² Torr	1.89	0.16	0.76 mm	545	271	< 400	ISO 3.9	ISO 4.5

* 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.

We have been designing high-quality, synthetic lubricants for leaders in the Aerospace industry for more than 65 years. Nye works with design engineers in the private, government, and defense sectors to formulate new synthetic lubricants that will take off with next-generation spacecraft. From the Mercury Mission, to the Mars Curiosity Rover and the International Space Station, Nye's space heritage includes lubricating important applications that must survive the severe conditions of the space environment and the mission requirements.

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