



AEROSPACE PRODUCTS: OILS

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



Space Oils: NYE'S CORE RANGE OF SYNTHETIC OILS 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	Pour Point (°C)	Base Oil Viscosity ASTM D-445 (cSt)			Evaporation CTM-2 (24 hrs, 100°C)	Vacuum Stability ASTM E-595 (125°C) (wt%)		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)		Particulate Cleanliness Levels* IEST-STD-CC-1246D
				100°C	40°C	-40°C		TML	CVCM			CoF	Wear Scar	
Synthetic Oil 1001	-50 to 125	Cyclopentane	-59	8	53	24,910	0.06%	2.23	1.064	5.49 x 10 ⁻¹¹ Torr	0.85	0.11	0.44 mm	Level 50
Synthetic Oil 1001A	-50 to 150	Cyclopentane	-63	9	53	26,070	0.02%	0.25	0.242	1.27 x 10 ⁻¹¹ Torr	0.85	0.16	0.62 mm	Level 50
Synthetic Oil 1001-3PB	-50 to 125	Cyclopentane	-59	8	53	24,910	0.06%	0.30	0.066	2.45 x 10 ⁻¹⁰ Torr	0.85	0.14	0.91 mm	Level 50
Synthetic Oil 2001	-45 to 125	Cyclopentane	-55	14	107	80,494	0.04%	1.39	0.700	1.88 x 10 ⁻¹⁰ Torr	0.84	0.11	0.43 mm	Level 50
Synthetic Oil 2001A	-45 to 125	Cyclopentane	-55	15	108	80,500	0.00%	0.12	0.013	4.50 x 10 ⁻¹¹ Torr	0.84	0.19	0.80 mm	Level 100
Synthetic Oil 2001B	-45 to 125	Cyclopentane	-55	15	108	80,500	0.10%	0.94	0.574	8.18 x 10 ⁻¹² Torr	0.86	0.11	0.43 mm	Level 50
Synthetic Oil 2001-3PB	-45 to 125	Cyclopentane	-55	15	108	80,500	0.10%	0.33	0.293	1.27 x 10 ⁻¹⁰ Torr	0.86	0.11	0.48 mm	Level 50
NyeTorr® 6201	-45 to 150	Cyclopentane	-55	15	108	80,500	0.00%	0.11	0.010	6.91 x 10 ⁻¹¹ Torr	0.84	0.18	0.80 mm	Level 50
NyeTorr® 6301	-75 to 250	PFPE	-80	56	187	5,818	0.00%	0.00	0.002	2.79 x 10 ⁻¹² Torr	1.83	0.08	0.84 mm	Level 25
NEW NyeTorr® 6351	-65 to 250	PFPE	-69	45	186	13,380	0.04%	0.00	0.000	4.43 x 10 ⁻¹³ Torr	1.84	0.10	0.64 mm	Level 25

*Level 25 = 1 25µm particle max. Level 50 = 1 50µm particle max. Level 100 = 1 100µm particle max

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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