



Synthetic Lubricants

Guide to MIL-Spec and NSN Lubricants



Military Specifications

Mil-Spec	Product	Applications	Chemistry	Temp. Range (°C)
MIL-DTL-53131 Grade 4	Nye Synthetic Oil 132	Ultrafiltered oil for inertial guidance gyro bearings, accelerometers, precision rolling element bearings.	PAO Antiwear Additives	-60 to 120
MIL-DTL-53131 Grade 6	Nye Synthetic Oil 179A	Ultrafiltered oil for inertial guidance gyro bearings, accelerometers, precision rolling element bearings.	PAO	-54 to 120
MIL-DTL-53131 Grade 9	Nye Synthetic Oil 182	Ultrafiltered oil for inertial guidance gyro bearings, accelerometers, precision rolling element bearings.	PAO	-40 to 125
MIL-DTL-53131 Grade 14	Nye Synthetic Oil 186	Ultrafiltered oil for inertial guidance gyro bearings, accelerometers, precision rolling element bearings.	PAO	-34 to 125
MIL-DTL-53131 Grade 40	Nye Synthetic Oil 176A	Ultrafiltered oil for use in inertial guidance gyro bearings, accelerometers, precision rolling element bearings.	PAO Antiwear Additives	-30 to 125
MIL-G-21164	Nye Instrument Grease 750A	Grease for ball, roller and needle bearings; sliding and rolling surfaces; gears	Ester Lithium Soap EP Fortified Rust Inhibited	-65 to 125
MIL-PRF-23827	Nye Instrument Grease 704C	Grease for ball and roller bearings, open gears, instruments, general airframe lubrication	Ester Clay EP Fortified	-65 to 150
MIL-PRF-23827	Nye Instrument Grease 710R	Grease for gears, actuators, instruments, high speed bearings	Ester Lithium Soap Rust Inhibited	-70 to 125
MIL-G-25013	Nye Instrument Grease 731B	Grease for ball and roller bearings, actuators, gearboxes	Silicone PTFE	-70 to 200
MIL-PRF-81322	Rheolube™ 733	Grease for bearings, gearbox, general purpose aircraft	PAO Clay EP Fortified Rust Inhibited	-54 to 125
MIL-L-11734	Nye Synthetic Oil A-501	Lubricating Oil for mechanical time fuzes	Ester Rust Inhibited	-65 to 150
MIL-L-25681	MIL-L-25681	Grease for sliding interfaces in gas turbine engines	Silicone Molybdenum Disulfide	-70 to 200
MIL-PRF-32014	Rheolube™ 374A	Grease for high-speed bearings in aircraft and missile systems	PAO Lithium Soap Rust Inhibited Copper-Corrosion Inhibited	-40 to 175
MIL-PRF-6085	Nye Synthetic Oil 200A	Lubricating oil for aircraft instruments	Ester Rust Inhibited	-54 to 130

National Stock Numbers

CAGE No. 98354

NSN	Product	Applications	Chemistry	Temp. Range (°C)
NSN9150-01-116-8168	Rheolube™ 723F6	Grease for timing motors, metal or plastic gears	PAO, Lithium Soap PTFE, Rust Inhibited	-40 to 125
NSN9150-01-186-4008	Rheolube™ 791B	Grease for gear trains	Ester, Lithium Soap	-40 to 150
NSN9150-01-289-0423	Rheotemp™ 500	Grease for high speed ball bearings	Ester, Sodium Soap EP Fortified	-54 to 175
NSN9150-01-310-3375	Rheolube™ 723-MS	Grease intended for bearings, sliding surfaces, gear trains, switchgear	PAO, Lithium Soap EP Fortified, Rust Inhibited	-54 to 125
NSN9150-01-366-4171	Nye Synthetic Oil 608	Oil for gear trains	Ester, EP Fortified Rust Inhibitor Copper Passivator	-40 to 150
NSN9150-01-381-0729	Rheolube™ 368	Grease for sliding surfaces, switch gear, bearings, gear trains	PAO, Lithium Soap	-40 to 125
NSN9150-01-388-5990	Nye Synthetic Oil 132	Ultrafiltered oil for inertial guidance gyro bearings, accelerometers, precision rolling element bearings	PAO, Antiwear Additives	-60 to 120
NSN9150-01-388-6025	Nye Synthetic Oil 182	Ultrafiltered oil for inertial guidance gyro bearings, accelerometers, precision rolling element bearings	PAO	-40 to 125
NSN9150-01-388-6068	Nye Synthetic Oil 176A	Ultrafiltered oil for inertial guidance gyro bearings, accelerometers, precision rolling element bearings	PAO, Antiwear Additives	-30 to 125
NSN9150-01-388-6117	Nye Synthetic Oil 186	Ultrafiltered oil for inertial guidance gyro bearings, accelerometers, precision rolling element bearings	PAO	-34 to 125
NSN9150-01-388-6146	Nye Synthetic Oil 179A	Ultrafiltered oil for inertial guidance gyro bearings, accelerometers, precision rolling element bearings	PAO	-54 to 120
NSN9150-01-415-9732 NSN9150-01-442-4728	Rheotemp™ 500	Grease for high speed ball bearings	Ester, Sodium Soap EP Fortified	-54 to 175
NSN9150-01-472-7130 NSN9150-01-472-7163	UniFlor™ 8991-MT	Grease for bearings, gears, actuators	PFPE, PTFE, EP Fortified	-60 to 250
NSN9150-01-499-6634 NSN9150-01-499-6642 NSN9150-01-499-6647 NSN9150-01-499-6648 NSN9150-01-499-6650	Rheolube™ 374A	Grease for aircraft gears, high-speed components	PAO, Lithium, Rust Inhibited Copper Corrosion Inhibited	-40 to 150
NSN9150-00-082-5636 NSN9150-00-782-3946	NyoSil™ M25	Precision instrument fluid for electrical and mechanical applications	Silicone	-70 to 200



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