The First in Synthetics®

AMSOIL Synthetic GL Series Multi-Purpose EP Grease

NLGI #0, #1 and #2

Regular and Spray Grease
Lithium Complex • Extreme Pressure

PRODUCT DESCRIPTION

AMSOIL Synthetic Multi-Purpose Greases are qualified against the highest grease standards and are designed for multiple use applications. Composed of premium quality synthetic base oils and lithium complex thickeners, Multi-Purpose Greases provide superior film strength, shear resistance, adhesion properties and mechanical stability, and they excel in temperature extremes by providing excellent oxidation stability, high-temperature dropping points and low-temperature torque values and pumping capabilities. AMSOIL Synthetic Multi-Purpose Greases are formulated with oil soluble extreme-pressure additives for heavy loads, as well as oxidation and corrosion inhibitors that impart good oxidation stability and rust protection.

Performance Features

- High dropping point of 500°F+ (#1 and #2)
- Resist thermal and oxidation degradation
- Excellent water-washout resistance
- Superior low temperature pumpability and torque values
- Adhesive and shear stable to prevent squeeze out

Applications or Requirements

- GLB (#1) & GLC (#2) ASTM D-4950 (NLGI) Service GC/LB
- GLA (#0) Cincinnati Milicron P-79 Spec.
- GLB (#1) Cincinnati Milicron P-72 Spec.
- GLC (#2) Cincinnati Milicron P-64 Spec.
- GLC (#2) Mack MG-C

Application Recommendation

AMSOIL Synthetic Multi-Purpose Grease grades #0, #1 and #2 are recommended in manual or automatic lubricating systems. NLGI #0 (GLA) and #1 (GLB) have better mobility and are the preferred choice for colder applications, automatic lubrication systems with long pumping runs and gear box applications (where recommended by manufacturer). NLGI #2 (GLC) is the preferred choice for medium to high ambient temperatures, sleeve-type bushings, high shock loading environments, wet environments and wheel bearings and other automotive applications.

The correct consistency grade of AMSOIL Synthetic Multi-Purpose Grease is recommended in heavy- and light-duty applications found in manufacturing plants, automobiles, agricultural and construction equipment. These include, but are not limited to, roller bearings, plain bearings, thrust bearings, gears, electric motors, presses, winches, bushings, wheel bearings, chassis lubrication, universal joints, ball joints, tie-rod ends, and steering knuckles. AMSOIL Synthetic Multi-Purpose Greases are suitable for use up to 350 degrees F. When operating at elevated temperatures, frequent regreasing may be required.

AMSOIL Synthetic Multi-Purpose Greases are compatible with many other types of greases. However, it is recommended that when changing greases, the equipment be cleaned of the old grease when possible or flushed with a liberal amount of Multi-Purpose Grease while the mechanism is in operation. Closely monitor the system for any inconsistencies. Grease compatibility questions should be referred to your AMSOIL representative or AMSOIL INC.

TYPICAL TECHNICAL PROPERTIES

Synthetic Multi-Purpose Greases	GLA	GLB	GLC	NLGI GC/LB
Thickener	lithium complex	lithium complex	lithium complex	NR
NLGI consistency grade	0	1	2	NR
NLGI performance grade	NA	GC-LB	GC-LB	NR
Penetration - ASTM D 217 (25°C [77°F], 0.1 mm)				
worked 60 strokes	355-385	310-340	265-295	220-340 min
Dropping point, °F[°C] - ASTM D2265	430 [221]	500 [260]	550 [288]	428 [220] min
High temperature life, hours - ASTM D 3527	120	140	160	80 min
Oxidation stability, psi - ASTM D 942 (100 hr/300 hr)	1/5	0/5	0/3	NR
Water washout, percent - ASTM D 1264	16.7	5.8	1.8	15 max
Rust and corrosion - ASTM D 1743	pass	pass	pass	pass
Oil separation, percent loss - ASTM D 1742				
(24 hours, 25°C [77°F])	5.2	3.4	1.1	6.0 max
Leakage, g lost - ASTM D 4290	NA	7.8	1.0	10 max
Four ball wear test, mm scar - ASTM D 2266	0.45	0.43	0.40	0.60 max
Fretting wear, mg - ASTM D 4170	NA	3.5	3.4	10 max
Four ball EP, kgf - ASTM D 2596				
Weld point	315	315	400	200 min
Load wear index	47	49	50	30 min
Timken OK load test, lbs - ASTM D 2509	45	45	50	NR
Low temperature torque, N•m - ASTM D 4693				
(-40°C [-40°F])	0.46	0.50	1.3	15.5 max
LT-37 pumpability, g/min (60° F/0°F [16°C/-18°C])	1475/73	855/29	360/7	NR
Copper corrosion - ASTM D 4048	1B	1B	1B	NR
Disc brake wheel bearing specifications				
Ford ESA-M1C 198-A	NA	NA	yes	NR
Chrysler MS-3701	NA	NA	yes	NR
Oil viscosity				
40°C [104°F], cSt	151	151	151	NR
100°C [212°F], cSt	19.2	19.2	19.2	NR
Flash point, °F[°C] - ASTM 92	450 [232]	450 [232]	450 [232]	NR
Color	red	red	red	NR
Texture	smooth with tack	smooth with tack	smooth with tack	NR

NA: Not applicable
NR: Not required for NLGI GC-LB labeling

APPLICATION MAINTENANCE

Maintaining a clean work environment is important when equipment greasing is performed. Wipe grease fittings clean prior to injecting grease to prevent contaminant ingestion. Maintain bearing housings one-third to one-half full of grease. Do not over-grease, as excessive heat buildup can result. Supplement standard grease maintenance by periodically cleaning and packing housings with fresh grease on an established maintenance schedule.

AMSOIL PRODUCT AVAILABILITY

AMSOIL Synthetic Multi-Purpose Greases are available in 14-oz. cartridges, 35-lb. lugs, 120-lb. kegs and 400-lb. drums. GLC is also available in 8-oz. tubes. Spray Grease available in 10.5-fl. oz cans.

AMSOIL products and Dealership information are available from your local AMSOIL Dealer.

