

Bearing & Chassis Grease

AMSOIL 100% SYNTHETIC MULTI-PURPOSE GREASE

Product Code: GLCCR-EA



Product Description

AMSOIL Synthetic Multi-Purpose Grease is a calcium sulfonate complex grease built on synthetic base oils that delivers reliable protection across a wide operating range, from wheel bearings on a livestock trailer to universal joints on a zero-turn mower. It consolidates multiple grease applications into one product without compromising performance in any of them.

Equipment that lives outdoors, works in temperature swings, or sits idle between seasons takes a beating at the grease points. Water intrusion washes conventional greases out of bearings. Cold mornings thicken inferior greases to the point where they resist pumping through centralized systems. High ambient heat and heavy loads break down the thickener structure, leaving metal-on-metal contact right where you need a protective film the most. A grease that can handle all of these conditions, consistently, means fewer surprises and less time chasing failures.

STAYS IN PLACE UNDER WATER EXPOSURE

Water washout is one of the fastest ways to lose grease protection in exposed applications like trailer wheel bearings, agricultural equipment, and chassis components that see road spray or pressure washing. AMSOIL Synthetic Multi-Purpose Grease posted just 1.5% loss in ASTM D1264 water washout testing. The calcium sulfonate complex thickener has inherent water resistance that lithium-based greases simply cannot match, which means the grease stays where you packed it instead of washing out and leaving bearings unprotected.

HANDLES TEMPERATURE EXTREMES FROM -40 degF TO 350 degF

The operational window on this grease runs from -40 degF to 350 degF. At the cold end, it recorded a low-temperature torque value of 8.6 N-m at -40 degC in ASTM D4693 testing, so it pumps through grease guns and centralized lubrication systems even in harsh winter conditions. At the other extreme, the dropping point exceeds 600 degF (ASTM D2265), and high-temperature life testing per ASTM D3527 returned 120 hours. Whether you are greasing a skid steer in a Minnesota January or packing wheel bearings on a trailer running through the desert Southwest, the grease maintains its structure and film strength.

HEAVY LOAD AND EXTREME-PRESSURE PROTECTION

For applications involving shock loads, heavy radial forces, or sliding contact, the oil-soluble EP additive package delivers a 620 kgf weld point in Four-Ball EP testing (ASTM D2596) and a 65-lb Timken OK Load result (ASTM D2509). Four-Ball Wear testing (ASTM D2266) produced a 0.40 mm scar diameter, confirming strong anti-wear performance under boundary lubrication conditions. This covers demanding grease points like fifth-wheel plates, backhoe pins and bushings, press bearings, and heavily loaded roller bearings in industrial equipment.

SHEAR-STABLE AND ADHESIVE FORMULATION

Greases that lose consistency under mechanical working create problems. They thin out, squeeze past seals, and leave components

starved for lubrication. AMSOIL Synthetic Multi-Purpose Grease is engineered for shear stability and tackiness, so it clings to moving surfaces rather than being flung off or pushed out of bearing races. The worked penetration value of 280 (ASTM D217, 60 strokes) places it squarely in NLGI #2 consistency, the standard grade for most automotive and industrial grease gun applications. Oil separation is also minimal at 0.49% (ASTM D1742), which means the oil stays bound in the thickener matrix during storage and in service.

RESISTS CORROSION AND OXIDATION

The synthetic base oils and calcium sulfonate complex thickener provide natural corrosion resistance, and the grease passes ASTM D1743 rust and corrosion testing. Oxidation inhibitors extend service life by resisting the chemical breakdown that causes grease to harden, acidify, and lose its lubricating properties over time. Equipment that sits between uses, like seasonal trailers, boat trailer bearings, or agricultural implements parked through winter, benefits from this long-term stability.

SPECIFICATIONS AND COMPATIBILITY

AMSOIL Synthetic Multi-Purpose Grease meets the NLGI GC-LB performance classification, qualifying it for automotive wheel bearing (GC) and chassis (LB) applications. It also meets the NLGI HPM core specification for high-performance multiuse grease. It is compatible with many other grease types, but when switching from a different grease, clean old grease from the housing when possible or flush thoroughly with AMSOIL Synthetic Multi-Purpose Grease while the component is in operation.

APPLICATION RANGE

Recommended for 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. Suitable for automobiles, trailers, heavy-duty trucks, manufacturing facilities, landscaping equipment, agricultural machinery, and powersports equipment. Available in 14-oz. cartridges, 35-lb. lugs, 120-lb. kegs, and 400-lb. drums.

Technical Specifications

Property	Value	Test Method
Thickener	Calcium Sulfonate Complex	
NLGI Consistency Grade	2	
NLGI Performance Grade	GC-LB, HPM	
Operating Range degF (degC)	-40 to 350 (-40 to 177)	
Penetration, worked 60 strokes	280	ASTM D217
Dropping Point degF (degC)	>600 (>316)	ASTM D2265
High-Temperature Life, hours	120	ASTM D3527
Water Washout, %	1.5	ASTM D1264
Rust and Corrosion	Pass	ASTM D1743
Oil Separation, % loss	0.49	ASTM D1742
Leakage, g lost	2.3	ASTM D4290
Four-Ball Wear Test, mm scar	0.40	ASTM D2266
Four-Ball EP Weld Point, kgf	620	ASTM D2596
Timken OK Load Test, lbs	65	ASTM D2509
Low-Temperature Torque, N-m (-40 degC / -40 degF)	8.6	ASTM D4693
Base Oil Viscosity @ 40 degC, cSt	170	
Color	Red	
Texture	Smooth with tack	

Frequently Asked Questions

Q1: What equipment and vehicles is AMSOIL Synthetic Multi-Purpose Grease designed for?

AMSOIL Synthetic Multi-Purpose Grease is designed for an extremely wide range of applications spanning auto/light truck, motorcycle, ATV, UTV, snowmobile, marine outboard, PWC, heavy-duty on-road, heavy-duty off-road, agriculture, and powersports equipment. Specific applications include 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. It is recommended for both heavy- and light-duty use in manufacturing facilities, automobiles, trailers, and landscaping and agricultural equipment.

Q2: How does AMSOIL Synthetic Multi-Purpose Grease protect equipment in wet environments and extreme conditions?

AMSOIL Synthetic Multi-Purpose Grease is built with calcium-sulfonate-complex thickeners and premium synthetic base oils that deliver exceptional film strength, shear resistance, and superior adhesion properties to effectively resist water washout and stay in place longer. It is also formulated with oil-soluble extreme-pressure additives for heavy and abusive loads, along with oxidation and corrosion inhibitors that protect against the effects of corrosion. This combination makes it a preferred choice for wet environments, wide ambient temperature ranges, and severe operating conditions.

Q3: What type of thickener and base oil does AMSOIL Synthetic Multi-Purpose Grease use?

AMSOIL Synthetic Multi-Purpose Grease is composed of premium-quality synthetic base oils paired with calcium-sulfonate-complex thickeners. This formulation provides exceptional film strength, shear resistance, excellent oxidation stability, a high-temperature dropping point, and outstanding low-temperature torque value and pumping capability. It is qualified against the highest grease standards and formulated with oil-soluble extreme-pressure additives as well as oxidation and corrosion inhibitors.

Q4: How does AMSOIL Synthetic Multi-Purpose Grease compare to conventional grease for wheel bearings and farm equipment?

AMSOIL Synthetic Multi-Purpose Grease outperforms conventional greases by using synthetic base oils and calcium-sulfonate-complex thickeners that deliver superior film strength, shear stability, and water-washout resistance. It excels in both extreme heat and cold, maintaining outstanding low-temperature pumpability and high-temperature stability. Verified users running it in farm machinery, tractors, backhoes, bulldozers, and equipment trailers for many years report never losing a bearing, with original bearings showing no signs of wear even after 25-plus years of service with regular repacking.

Q5: How often should I regrease equipment when using AMSOIL Synthetic Multi-Purpose Grease and how much should I use?

AMSOIL recommends maintaining bearing housings one-third to one-half full of grease and avoiding over-greasing, as excessive grease can cause heat buildup. Wipe grease fittings clean prior to injecting grease to prevent contaminant ingestion. Supplement standard grease maintenance by periodically cleaning and packing housings with fresh grease on an established maintenance schedule. The specific regreasing interval depends on the application and operating conditions.

Q6: Is AMSOIL Synthetic Multi-Purpose Grease compatible with other types of grease already in my equipment?

AMSOIL Synthetic Multi-Purpose Grease is compatible with many other types of greases. However, AMSOIL recommends that when switching 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. The system should be closely monitored for any inconsistencies after the change. For specific grease compatibility questions, AMSOIL advises contacting your AMSOIL representative or AMSOIL INC. directly.

Available Product Codes

Product Code	Package Size	Unit of Measure
GLCCR-EA	14 oz. Cartridge	Each
GLCCR-CA	14 oz. Cartridge	Case of 10
GLCCR-PK	14 oz. Cartridge	Packs of 40
GLC35-EA	35 lb. Lug	Each
GLC99-EA	120 lb. Keg	Each
GLC40-EA	400 lb. Drum	Each

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