



Devoted to Protection®

OPEN GEAR GREASE

Stock Code: OGG

Product Profile

DEVOTED TO PROTECTION®

AMSOIL Open Gear Grease is engineered specifically for use in wind turbine pitch and yaw gears. Its unique combination of base oils, calcium-sulphonate-complex thickeners and carefully chosen additives solve common gear-tooth issues such as fretting, pitting, corrosion and the general lack of grease between heavily loaded gear sets. Open Gear Grease is a tacky grease that stays in place with exceptional tenacity due to a proprietary combination of additives. It protects against fretting from extreme cyclical loads and vibration while offering protection when the nacelle ratchets during backlash events and places heavy impact-type loads between gear teeth. Open Gear Grease's highly tenacious formula creates thin filaments of grease that distribute across the gear face after meshing, increasing lubrication during the next pass. Open Gear Grease contains a combination of solid additives to provide additional protection and improved film thickness, which is critical in wind turbines to ensure separation of heavily loaded gears and to avoid damage.

PROTECTION FROM THE ELEMENTS

Open Gear Grease provides exceptional water-washout protection, maintaining an appropriate grease film to protect yaw and pitch gears from corrosion. Even in extremely humid or salt-ridden environments, Open Gear Grease provides excellent protection. When equipment is operating in harsh climates where temperatures drop well below freezing, Open Gear Grease ensures superior load and wear protection.

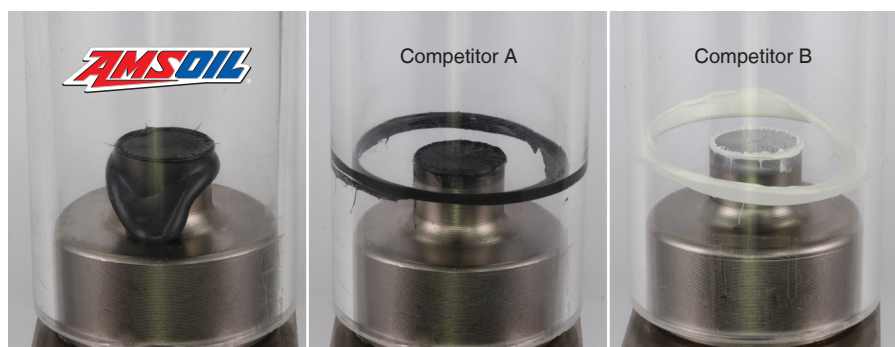


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AMSOIL DELIVERS SUPERIOR GEAR PROTECTION

Calcium-complex thickeners provide improved extreme-pressure, load and corrosion protection compared to other thickeners. Wind turbine pitch and yaw systems require a grease like Open Gear Grease to maintain optimum performance and efficiency. It has been confirmed compatible with other common brands used in this application, but we recommend you confirm compatibility with your current brand with your AMSOIL Wind sales representative.

AMSOIL Open Gear Grease stays in place despite heavy impacts and loads, providing pitch and yaw gear protection the competition can't match.



Based on extreme lab testing using a pneumatic test apparatus that applies a controlled, impact-type force on the grease using a ram and anvil. All products tested are NLGI #2. Competitor products purchased January 2020.

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TYPICAL TECHNICAL PROPERTIES

AMSOIL Open Gear Grease (OGG)

NLGI Grade	2
Thickener Type	Calcium Sulphonate Complex
Color, Visual	Dark Gray
Penetration, Worked, 25°C, mm (ASTM D217)	280
Dropping Point, °F (ASTM D2265)	600°
Viscosity of Base Oil @ 40°, cSt (ASTM D445)	232
Four-Ball EP Test, Weld Load, kgf (ASTM D2596)	800
Four-Ball Wear @ 60°C, Scar Diameter, mm (ASTM D2266)	0.51
Water Washout @ 60°C, %wt (ASTM D1264)	0.7
Corrosion Protection, hrs (ASTM B117)	>1000
Timken Load, lbs. (ASTM D2509)	60+



The typical properties listed above reflect the general characteristics of the product and are not manufacturing specifications. Variations that do not affect product performance should be expected. Product formulations are subject to change without notice.