

PAO Based Synthetic Gear Oil (HG3)



Product Description

Podlee PAO (Polyalphaolefin) full synthetic gear oil is a high-performance lubricant engineered for extreme operating conditions, utilizing advanced synthetic base oils and tailored additive technology. Its formulation ensures superior thermal stability, oxidation resistance, and load-carrying capacity, making it ideal for modern gear systems demanding extended service life and reliability. We offer standard PAO synthetic gear oils in ISO VG 220 and 320 viscosities, with other viscosity grades available for customization.

Application

Particularly suitable for applications at high operating temperatures and loadings, Podlee HG provides superior performance benefits including excellent thermal and oxidation stability and enhanced load carrying ability as detailed below.

Advantages

Podlee HG3 offers a wide range of performance benefits over a conventional lubricant when used in gear and bearing applications:

Substantially extended lubricant life.

Excellent anti-wear, extreme pressure and load carrying properties.

Superior performance across a wide temperature range and in particular at high temperatures.

Excellent thermal and oxidative stability.

Low pour point and good air and water separation capabilities.

Typical Characteristics

Item	Typical Value		Method
Viscosity (mm ² /s @ 104 °F / 40 °C)	220	320	ASTM D445
Viscosity Index	150	150	ASTM D2270
Flash Point – Open Cup Method, (°F/°C)	235/455	473/245	ASTM D92
Pour Point (°F/°C)	-43.6/-42	-40/-40	ASTM D97
Water (%)	None	None	ASTM D95
Copper Corrosion, (100°C,3h)	1a	1a	ASTM D130
Mechanical impurities	0.01	0.01	ASTM D445
Rust Preventing characteristic (A)	Pass	Pass	ASTM D665
P _B (N)	803.6	803.6	ASTM D2783
P _D (N)	3087	3087	
FZG (Failure Load Stage)	12	12	DIN51354-2

Package

18 L/Barrel

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