



Premium Performance. Heavy Duty Value.

Synthetic Gear & Bearing Oil

ISO 150, 220, 320, 460

A premium performance, extreme pressure lubricant designed for enclosed industrial gears and bearings operating under severe load conditions and in extreme temperatures.

Description/Benefits

Valpar Synthetic Gear & Bearing Oil is formulated using synthetic PAO base oils and specially selected additive technologies to deliver excellent wear properties and outstanding extreme temperature performance for extended component and fluid life. It enhances gear box efficiency over a wide temperature range and can reduce power consumption.

- Designed to protect equipment being operated under tough high load conditions.
- Improves operating reliability over a wide range of gearbox loads.
- Extends gear and bearing life.
- Reduces likelihood of seizure, scuffing or spalling of gear teeth and bearings under high load conditions.
- Energy efficient over a wide temperature range.
- Protects equipment in the most extreme temperature conditions.
- Inherent high Viscosity Index (VI) over a wide temperature range.
- Provides excellent resistance to rust and copper corrosion.

Applications

When converting a gearbox to Valpar Synthetic Gear & Bearing Oil, it is recommended it be cleaned and flushed first to gain the full benefit of the product. Valpar Synthetic Gear & Bearing Oil is compatible with mineral oils, polyalphaolefin lubricants and most seal materials except natural rubber.

Valpar Synthetic Gear & Bearing Oil operates over the temperature range from -30°C (-22°F) to 121°C (250°F).

Valpar Synthetic Gear & Bearing Oil is designed to meet the following OEM standards:

- DIN 51517-3-August 2011
- Siemens Industrial Gear Revision 13
- Eickhoff Gear
- Jahnel Kestermann
- AIST 224 (formerly US Steel 224)
- AGMA 9005-E02 (EP)
- David Brown S1.53.101 Type E
- MAG IAS (formerly known as Cincinnati Machine)

Valpar Synthetic Gear & Bearing Oil is listed on Flender Gear Units and Geared Motors T7300 Approved Lubricants List and are suitable for use in GE 787/788 drive systems.

Performance Specification

Specification	Test Method	Performance - 150	Performance - 220
AGMA Grade		4 EP	5 EP
Density, kg/L at 15°C	D4052	0.857	0.860
Colour	D1500	1.0	1.0
Viscosity, cSt @ 40°C	D445	150	226
cSt @ 100°C		19.6	26.2
SUS @ 100°F		772	1050
SUS @ 210°F		98	126
Viscosity Index	D2270	150	148
Pour Point, °C / °F	D5950	-54 / -65	-48 / -54
Temperature required for 150,000 cP, °C / °F	D2983	-41 / -42	-36 / -33
Flash Point, COC, °C / °F	D92	232 / 450	235 / 455
Rust Procedure, A & B, 24 h	D665	Pass	Pass
Copper Corrosion, 3h @ 100°C	D130	1b	1b
Timken OK Load, kg / lb	D2782	48 / 106	48 / 106
Four Ball EP weld, kg / lb	D2783	250 / 550	250 / 550
FZG Failure Load Stage	DIN 51354	>12	>12