

ANDEROL PRODUCT DATA SHEET

ANDEROL® 5000 SERIES

Synthetic Gear and Bearing Oils, EP

GENERAL INFORMATION

The ANDEROL 5000 series EP Synthetic Gear Oils are a family of products particularly suited to gear applications in which extreme service conditions are expected. They are available in ISO grades 150 through 680. These products are formulated with polyalphaolefin (PAO) base stocks in order to provide performance greatly superior to conventional petroleum oils. The molecular structure of PAO resembles that of high quality petroleum oils. Indeed, PAO fluids are fully compatible with petroleum based oils while offering significantly improved load carrying ability, excellent wear and rust protection, high viscosity index, high flash point, low pour point, outstanding oxidative stability, and cleaner running systems.

TYPICAL PROPERTIES:

PROPERTY	TEST METHOD	5150	5220	5320	5460	5680
ISO Grade	---	150	220	320	460	680
Viscosity, 40°C, cSt	ASTM D-445	145	222	315	457	666
Viscosity, 100°C, cSt	ASTM D-445	19.3	25.9	34.1	45.7	61.2
Viscosity Index	ASTM D-2270	154	160	161	163	160
Flash Point, °C (°F)	ASTM D-92	260 (500)	268 (515)	268 (515)	271 (520)	274 (525)
Pour Point, °C (°F)	ASTM D-97	-48 (-55)	-48 (-55)	-46 (-55)	-46 (-55)	-43 (-45)
Rust Protection						
With water	ASTM D-665	Pass	Pass	Pass	Pass	Pass
With Saline		Pass	Pass	Pass	Pass	Pass
4-Ball Wear, mm	ASTM D-4172	0.34	0.31	0.30	0.30	0.30
4-Ball EP Weld Point, kg	ASTM D-2783	250	240	225	225	240
Copper Strip Corrosion	ASTM D-130	1B	1B	1B	1B	1B
Total Acid Number, mg KOH/g	ASTM D-664	0.68	0.66	0.65	0.65	0.65
Foam Tendency, ml (Seq I, II, III)	ASTM D-892	0/5/0	0/10/0	0/15/0	0/15/0	0/10/0
FZG Gear Test, Pass Stage	DIN 51254	13	13	13	13	13
Timken OK Load, lbs	ASTM D-2782	>80	>80	>80	>80	>80

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For more information please refer to the relevant Material Safety Data Sheet accompanying each product.

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APPLICATIONS

- Particularly suited to gear applications in which extreme service conditions

ADVANTAGES

- Excellent oxidation and thermal stability
- High operating temperature range
- Lower maintenance costs
- Excellent load carrying ability
- Extended lubricant life
- Improved cleanliness
- Compatible with paints, gaskets, and seals used with conventional petroleum based oils
- Compatible with petroleum oils, therefore allowing minimal effort to changeover

COMPATIBILITY

ANDEROL synthetic hydrocarbon based lubricants are similar to mineral oils in their compatibility with paints, seals, gaskets and hoses. No special precautions related to compatibility are required when changing over from a mineral oil lubricant to an ANDEROL synthetic hydrocarbon based lubricant.

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Specialty Lubricants