

ANDEROL[®] 5000 Series

Synthetic Gear and Bearing Oils, EP (Extreme Pressure)

DESCRIPTION

The **ANDEROL[®] 5000 series** are a family of heavy duty gear and bearing lubricants formulated to provide excellent oxidation resistance, anti-wear, and EP properties. They are available in ISO grades 220, 320, 460, and 680. These fluids are fully compatible with petroleum based oils while offering excellent wear and rust protection, high viscosity index, high flash point, low pour point, outstanding oxidative stability, and cleaner running systems.

APPLICATIONS

- Particularly suited to heavy duty gear applications for extreme service conditions such as high impact loading
- All types of enclosed gear drives
- Bearings, including plain, rolling elements and antifriction types

ADVANTAGES

- Excellent oxidation and thermal stability
- Wide operating temperature range
- Lower maintenance costs
- Extended lubricant life
- Improved cleanliness
- Very good rust and copper corrosion prevention
- Compatible with petroleum oils, therefore allowing minimal effort to changeover

APPROVALS and SPECIFICATIONS

- o Fives Cincinnati P-specifications (formerly MAG IAS, LLC and Cincinnati Machine)
P-74 (ISO 220), P-59 (ISO 320), P-35 (ISO 460), P-34 (ISO 680)
- o GE Motorized Wheel D50E27
D50E27B (ISO 220), D50E27C (ISO 320), D50E27D (ISO 460), D50E27E (ISO 680)
- o GE Motorized Wheel D50E35
D50E35B (ISO 220), D50E35C (ISO 320), D50E35D (ISO 460), D50E35E (ISO 680)
- Meets or exceeds the requirements of:
 - o DIN 51517 part 3

TYPICAL PROPERTIES:

PROPERTIES	TEST METHOD	ANDEROL 5220	ANDEROL 5320	ANDEROL 5460	ANDEROL 5680	
ISO Grade	---	220	320	460	680	
AGMA Grade *	AGMA 9005-D94	5EP	6EP	7EP	8EP	
Viscosity, cSt	@ 40°C	ASTM D445	233	334	460	722
	@ 100°C	ASTM D445	28	36.8	47	65.2
Viscosity Index	ASTM D2270	156	157	160	161	
Pour Point, °C	ASTM D97	-42	-42	-39	-36	
Flash Point, °C	ASTM D92	268	270	278	287	
Density, 15.6°C (60°F)	ASTM D1250	0.85	0.86	0.86	0.86	
Acid Number, mg KOH/g	ASTM D664	0.74	0.75	0.70	0.75	
Foam Tendency, mL (Seq I, II, III)	ASTM D892	0/0,0/0, 0/0	0/0,0/0, 0/0	0/0,0/0, 0/0	0/0,0/0, 0/0	
Rust Test	ASTM D665B	Pass	Pass	Pass	Pass	
4-Ball Wear, mm	ASTM D4172	0.37	0.35	0.35	0.32	
4-Ball EP, Kg Weld	ASTM D2783	250	250	250	250	
FZG pass load stage, A/8.3/90, fail stage min.	ASTM D5181	>12				

* AGMA 9005-E02 significantly changed the viscosity grade nomenclature. With the change from the AGMA viscosity grade equivalents to ISO viscosity grade classifications, the designations S, EP, R and COMP are no longer be used as part of the viscosity grade nomenclature.

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.

PACKAGING

ANDEROL® 5000 series products are available in 5-gallon pails and 55-gallon drums. Other packages may be available upon request.

A5000:REV051712

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