

# ANDEROL<sup>®</sup> 4000 Series

Synthetic Gear and Bearing Oils, R&O/AW

## DESCRIPTION

The **ANDEROL<sup>®</sup> 4000 series** are a series of R&O/AW-type synthetic fluids that are PAO-based. They provide excellent oxidation resistance. They are available in ISO grades 220, 320, 460, and 680. The unique balance of synthetic hydrocarbon technology provides wide operating temperature ranges and cleaner running systems.

## APPLICATIONS

- All types of enclosed gear drives
- All types of bearings, plain or rolling elements
- Other type of bearing applications requiring a high ISO grade fluid
- These oils are generally associated with higher speed and lighter load applications

## 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

- Meets or exceeds the requirements of:
  - ANSI/AGMA 9005-EO2 CLASS RO
  - ISO 12925-1 "CKB"

## TYPICAL PROPERTIES:

PROPERTIES	TEST METHOD	ANDEROL 4220	ANDEROL 4320	ANDEROL 4460	ANDEROL 4680
ISO Grade	---	220	320	460	680
AGMA Grade *	AGMA 9005-D94	5(S)	6(S)	7(S)	8(S)
Viscosity, cSt					
@ 40°C	ASTM D445	203	302	426	635
@ 100°C	ASTM D445	22.5	30.2	39.8	51.5
Viscosity Index	ASTM D2270	135	136	141	139
Pour Point, °C	ASTM D97	-45	-42	-39	-36
Flash Point, °C	ASTM D92	273	275	276	268
Copper corrosion, 3hrs at 100°C	ASTM D130	1b	1b	1b	1b
Density, 15.6°C / 60°F	ASTM D1250	0.88	0.88	0.88	0.89
Acid Number, mg KOH/g	ASTM D664	0.16	0.19	0.17	0.19
Foam Tendency, mL (Seq I)	ASTM D892	0	0	0	0
Rust Test	ASTM D665 B	Pass	Pass	Pass	Pass
Wear protection, mm scar	ASTM D4172	0.31	0.42	0.39	0.45

\* 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<sup>®</sup> 4000 series products are available in 5-gallon pails and 55-gallon drums. Other packages may be available upon request.

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