

## ULTRACHEM PAO EP SERIES PREMIUM PAO EP GEAR LUBRICANTS

### Applications:

Ultrachem PAO EP Gear Lubricants are fully synthetic, heavy duty industrial gear oils formulated from the highest quality polyalphaolefin (PAO) base fluids. They are designed for enclosed gears operating under adverse loads, temperatures and where EP may be required. A variety of seven viscosity grades, all with excellent VI's, meet the requirements of AGMA 2 EP through 8 EP. These oils cover a wide range of operating temperature and load conditions. The Ultrachem PAO EP Series have higher VI Values than the Omnigear EP Series.

### Typical Industrial Applications:

- Enclosed Gear Units: i.e. Spur, Helical, Bevel & Worm Gears
- Agitator Drives
- Centrifuge Gear Boxes
- Extruder Reducers
- Plain and Roller Contact Bearings
- Circulating and Splash Lubricated Systems
- Mist Systems

### Performance Benefits:

- Reduced downtime due to extended change intervals
- 100% synthetic lubricant with a High Viscosity Index
- Wide temperature range -50F to +250F, depending on grade chosen
- Longer life than conventional oils
- Intended for heavy-duty extreme pressure industrial applications

Ultrachem EP Gear Oils are made with superior EP additives that are proven in the field and include the following approvals: U.S. Steel 224; David Brown S1.53.101; Cincinnati Milacron; DIN 51517 Part 3.

#### HEALTH & SAFETY

To obtain an MSDS on this or any other Ultrachem product, please contact your representative.

#### TECHNICAL SUPPORT

To learn more about Ultrachem products and applications please contact us at [info@ultracheminc.com](mailto:info@ultracheminc.com)



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TYPICAL PROPERTIES	TEST METHOD	Ultrachem PAO 68 EP	Ultrachem PAO 100 EP	Ultrachem PAO 150 EP
ISO Grade	ASTM D2422	68	100	150
Viscosity @ 40°C,cSt	ASTM D445	69.6	102	155
Viscosity @ 100°C,cSt	ASTM D445	11.3	14.6	19.7
Viscosity Index	ASTM D2270	158	147	147
Flash Point, °C/°F	ASTM D92	240/464	240/464	257/495
Pour Point, °C/°F	ASTM D97	-48/-55	-45/-49	-45/-49
Copper Corrosion	ASTM D130	1B	1B	1B
Rust Prevention	ASTM D665	Pass	Pass	Pass
Carbon Residue, %	ASTM D189	Nil	Nil	Nil
Color	Visual	Amber	Amber	Amber
Timken O.K. Load, lbs.	ASTM D2782	75	75	75
FZG, load stage	ASTM D5182	10	12	12
AGMA Lubricant Number	---	2 EP	3 EP	4 EP
Specific Gravity	ASTM D1298	0.86	0.86	0.87

TYPICAL PROPERTIES	TEST METHOD	Ultrachem PAO 220 EP	Ultrachem PAO 320 EP	Ultrachem PAO 460 EP	Ultrachem PAO 680 EP
ISO Grade	ASTM D2422	220	320	460	680
Viscosity @ 40°C,cSt	ASTM D445	229	320	486	696
Viscosity @ 100°C,cSt	ASTM D445	26.9	34.3	46.6	58.3
Viscosity Index	ASTM D2270	152	152	152	148
Flash Point, °C/°F	ASTM D92	221/430	235/455	250/482	250/482
Pour Point, °C/°F	ASTM D97	-37/-33	-37/-33	-30/-22	-20/-4
Copper Corrosion	ASTM D130	1B	1B	1B	1B
Rust Prevention	ASTM D665	Pass	Pass	Pass	Pass
Carbon Residue, %	ASTM D189	Nil	Nil	Nil	Nil
Color	Visual	Amber	Amber	Amber	Amber
Timken O.K. Load, lbs.	ASTM D2782	85	85	85	80
FZG, load stage	ASTM D5182	12	12	12	12
AGMA Lubricant Number	---	5 EP	6 EP	7 EP	8 EP
Specific Gravity	ASTM D1298	0.87	0.87	0.88	0.88

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