

# CHEMLUBE® PAO SERIES

PAO-BASED 8000 HOUR COMPRESSOR LUBRICANTS

PRODUCT CODES: 221, 228, 268, 299, 300

## PRODUCT OVERVIEW

Chemlube® PAO lubricants are synthetic air compressor fluids designed using high quality polyalphaolefin (PAO) base stocks and an advanced additive package built for high-level performance. These products are formulated to meet the demands of modern compressor equipment which place a high level of stress of the lubricant due to compact designs, increased speeds and resulting high temperatures. PAO offers excellent compatibility with most lubricants and equipment components, excellent demulsibility for easy moisture removal and solid performance over a wide temperature range.

Chemlube 221, 228, and 268 are designed for rotary screw applications and offer a service life of up to 8,000 hours under good operating conditions.

Chemlube 299 and 300 are designed for reciprocating compressors with variable hours based on application specifics.

## APPLICATION DETAIL

- Rotary screw compressors (221, 228, 268)
- Rotary vane compressors (268, 299, 300)
- Reciprocating compressors (299, 300)
- Vacuum pumps (228, 299)
- Centrifugal compressors (221)

## KEY BENEFITS

- Cost savings from extended service intervals (8000\* hours)
- Excellent demulsibility for improved lubricity and fluid life
- Robust protection from oxidation and thermal degradation
- Protection from wear and corrosion to extend machine life
- Reduced oil make-up costs from low volatility / low foaming formula design
- Potential energy savings over standard mineral oils

### QUICK POINTS...

**Name:** Chemlube PAO Series  
**ISO Grade:** 32, 46, 68, 100, 150  
**Base:** PAO  
**Additive System:** AO/AW/CI  
**Color:** Pale Yellow  
**Food Grade:** No  
**GHS Class:** None  
**Main Application:** Compressors

## TYPICAL CHARACTERISTICS\*\*

| PROPERTY  | ASTM METHOD | 221          | 228          | 268          | 299          | 300          |
|---|-------------|--------------|--------------|--------------|--------------|--------------|
| ISO Grade   |             | 32           | 46           | 68           | 100          | 150          |
| Viscosity, 40°C   | D445        | 32           | 48           | 68           | 99           | 156.3        |
| Viscosity, 100°C  | D445        | 5.5          | 7.9          | 10.3         | 14.5         | 18.3         |
| Viscosity Index   | D2270       | 140          | 134          | 139          | 150          | 131          |
| Specific Gravity, 20°C  | D4052       | 0.84         | 0.86         | 0.86         | 0.86         | 0.86         |
| Pour Point, °C  | D97         | -40          | -40          | -40          | -40          | -40          |
| Flash Point, °C   | D92         | 220          | 250          | 250          | 250          | 260          |
| Demulsibility, min.   | D1401       | 40-40-0 (<5) | 40-40-0 (<5) | 40-40-0 (<5) | 40-40-0 (<5) | 40-40-0 (<5) |
| Foaming Sequences I, II, III                                    | D892        | < 10/0       | < 10/0       | < 10/0       | < 10/0       | < 10/0       |
| Copper Corrosion  | D130        | 1b           | 1b           | 1b           | 1b           | 1b           |
| Four Ball Wear, 40 Kg., 1200rpm, 75°C, 1 hr., Scar Diameter, mm | D4172       | <0.50        | <0.50        | <0.50        | <0.50        | <0.50        |

\*\*Characteristics are typical of production. Slight variations in the actual data may occur which will not affect performance.

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## RECOMMENDATIONS & APPROVALS

- Chemlube 228 – NSF H-2 155193
- DIN 51506 VDL

## COMPATIBILITY NOTES

- Compatible with mineral oils and most synthetics
- Compatible with most process gases
- Excellent compatibility with common seal materials, plastics and paints
- Not compatible with polyalkylene glycol (PAG) lubricants

## SHELF LIFE

- (5) years from date of manufacture when stored in unopened container
- Shelf life may be extended based upon fluid type and conditions

## HEALTH & REGULATORY STATEMENTS

- Classified as non-hazardous per OSHA GHS
- TSE/BSE compliant: product does not contain any materials of animal origin or derivatives
- FALCPA compliant: product does not contain any allergens
- RoHS compliant: product does not contain any EU RoHS substances
- REACH compliant: product does not contain any SVHC substances
- Guidelines on safety and storage may be found on the associated Safety Data Sheet ([SDS@ultracheminc.com](mailto:SDS@ultracheminc.com))

## PACKAGING AVAILABILITY

- 5-gallon pail (18.9 L)
- 55-gallon drum (208.2 L)
- 330-gallon tote (1249.2 L)
- (2) 2.5-gallon case (18.9 L) - 228, 299
- (6) 1-gallon case (22.7 L) - 228, 299

Please contact your Ultrachem, Inc. representative for detailed information not covered in this data sheet.



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We therefore recommend you consult a FUCHS Lubricants Co. Application Engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

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