

## CHEMLUBE® 215, 229, 230, 501, 751, and 822 DIESTER-BASED COMPRESSOR LUBRICANTS

### Applications:

The Chemlube diester-based series are fully synthetic compressor oils specially formulated with premium synthetic ester base fluids for use in a wide variety of air compressors.

Chemlube 215, 229, and 230 are designed from diester base oils for rotary screw compressors and will offer a typical service life of 8,000 hours under good operating conditions. Chemlube 501 and 751 are designed from diester base oils for reciprocating compressors and are recommended for high pressure air compressors.

Chemlube 501 and 751 are recommended for reciprocating compressors and vacuum pumps using the following gases:

|                      |             |                        |                 |
|----------------------|-------------|------------------------|-----------------|
| Air                  | Ethylene    | Methane                | Propane         |
| Butadiene            | Natural Gas | Synthesis Gas          | Carbon Monoxide |
| Carbon Dioxide (dry) | Helium      | Hydrogen Sulfide (dry) | Nitrogen        |
| Furnace (crack) Gas  | Hydrogen    | Sulphur Hexafluoride   |                 |

Nominal Operating Range is -15°C to 230°C (5°F to 445°F)

### Typical Industrial Applications:

- Rotary Screw Compressors
- Rotary Vane Compressors
- Centrifugal Compressors
- Reciprocating Compressors
- High Pressure Air Compressors
- Vacuum Pumps
- Gear Boxes
- Chains

### Performance Benefits:

- Outstanding thermal and oxidative stability
- Will not varnish or form carbon deposits
- Wide operating temperature range
- Built in detergency action
- Extended drain intervals reduces oil disposal, thus increasing cost effectiveness
- Caution: May affect some paint finishes, plastics and seals
- USDA H-2 authorized

Chemlube 215 carries the NSN #9150-01-068-0676 (quarts). Chemlube 501 carries the NSN #9150-01-052-7562 (gallons); NSN #9150-01-025-8649 (pails); NSN #9150-01-240-4950 (drums).

03/10

#### 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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## CHEMLUBE® 215, 229, 230, 501, 751, and 822 DIESTER-BASED COMPRESSOR LUBRICANTS

| TYPICAL PROPERTIES  | TEST METHOD | Chemlube 215 | Chemlube 229 | Chemlube 230 | Chemlube 501 | Chemlube 751 | Chemlube 822 |
|---|-------------|--------------|--------------|--------------|--------------|--------------|--------------|
| ISO Grade   | ASTM D2422  | 32           | 46           | 68           | 100          | 150          | 220          |
| SAE Grade   | SAE J-300   | 10           | 10W20        | 20           | 30           | 40           | 50           |
| Viscosity @ 40°C,cSt  | ASTM D445   | 36.3         | 45.4         | 70           | 99           | 146.5        | 222          |
| Viscosity @ 100°C,cSt   | ASTM D445   | 5.9          | 6.5          | 7            | 10.2         | 13.3         | 18.6         |
| Viscosity Index   | ASTM D2270  | 106          | 89           | 60           | 83           | 90           | 92           |
| Flash Point, °C/°F  | ASTM D92    | 252/486      | 252/485      | 252/485      | 260/500      | 271/520      | >260/>500    |
| Pour Point, °C/°F   | ASTM D97    | -48/-54      | -40/-40      | -38/-35      | -29/-30      | -34/-30      | -34/-30      |
| Copper Corrosion  | ASTM D130   | 1a           | 1b           | 1a           | 1b           | 1a           | ---          |
| Foaming Sequences I, II, III                                    | ASTM D892   | Nil          | Nil          | Nil          | Nil          | Nil          | ---          |
| Demulsibility   | ASTM D1401  | Excellent    | Excellent    | Excellent    | Excellent    | Excellent    | Excellent    |
| Evaporation, %  | ASTM D972   | 1.0          | 1.0          | 1.0          | 0.98         | 0.90         | <1%          |
| Carbon Residue, %   | ASTM D189   | <0.02        | <0.02        | <0.02        | <0.02        | <0.020       | <0.020       |
| Dielectric Strength   | ASTM D877   | ---          | ---          | 34.33        | ---          | ---          | ---          |
| Four Ball Wear, 40 Kg., 1200rpm, 75°C, 1 hr., Scar Diameter, mm | ASTM D4172  | ---          | ---          | ---          | 0.38         | ---          | ---          |
| Specific Gravity  | ASTM D1298  | 0.96         | 0.96         | 0.96         | 0.95         | 0.93         | 0.92         |

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