

CHEMLUBE® DIESTER SERIES

DIESTER-BASED 8000 HOUR LUBRICANTS

PRODUCT CODES: CHEMLUBE 215, 229, 230, 501, 751, 822

PRODUCT OVERVIEW

The Chemlube® Diester series is formulated with premium synthetic ester base fluids with performance additives for use in a wide variety of air compressor technologies, especially useful in severe-duty applications. These products provide excellent wear protection, superior inherent lubricity / metal-wetting, and outstanding resistance to oxidation and thermal degradation, making them an ideal choice for high-pressure / high-temperature compressor applications.

The Chemlube® Diester series significantly reduces the potential for fires and explosions compared to mineral oil-based products, exhibiting a virtual absence of deposit formation and high flash and fire points. Their exceptional water separating characteristics reduce problems with emulsion formation and carryover into downstream piping and equipment.

Chemlube 215, 229, and 230 are designed for rotary screw, rotary vane and reciprocating compressors. Chemlube 501 and 751 are designed for reciprocating compressors and are recommended for high pressure air compressors with the following gases:

Air Ethylene Methane Propane Nitorgen
Butadiene Natural Gas Synthesis Gas Carbon Monoxide Sulphur Hexafluoride
Carbon Dioxide (dry) Helium Hydrogen Sulfide (dry) Hydrogen
Nominal Operating Range is -15°C to 230°C (5°F to 445°F)

APPLICATION DETAIL

- Rotary Screw Compressors
- Reciprocating Compressors
- Rotary Vane Compressors
- Centrifugal Compressors
- Vacuum Pumps
- Chain

KEY BENEFITS

- Outstanding thermal and oxidative stability
- Wide operating temperature range
- Reduced varnish or carbon deposit formation through inherent detergency action
- Extended drain intervals for reduced oil disposal, increasing cost effectiveness
- Excellent demulsibility characteristics improving system efficiency and corrosion protection
- Reduced metal-to-metal wear through improved metal-wetting compared to mineral oil or PAO
- Provides a greater margin of safety than conventional petroleum products due to higher flash points, fire points and auto ignition temperatures
- Maximum safety for air lines through protection of deposit formation
- USDA H-2 authorized

QUICK POINTS...

Name: Chemlube Diester Series

ISO Grade: 32 -220

Base: Ester

Additive System: AW/R&O/CI

Color: Pale Straw
Food Grade: No

Main Application: Compressors

TYPICAL CHARACTERISTICS**

PRODUCT DATA	ASTM METHOD	Chemlube 215	Chemlube 229	Chemlube 230	Chemlube 501	Chemlube 750	Chemlube 822
ISO Grade	D2422	32	46	68	100	150	220
SAE Grade	SAE J-300	10.0	10W20	20.0	30.0	40.0	50
Viscosity, 40 °C	D445	36.30	45.40	70.00	99.00	146.50	222
Viscosity, 100 °C	D445	5.9	6.5	7	10.2	13.3	18.6
Viscosity Index	D2270	106	89	60	83	90	92
Flash Point, °C/°F	D92	274/526	258/496	277/531	260/500	272/522	267/531
Pour Point, ^o C/°F	D97	-48/-54	-40/-40	-42/-44	-33/-27	-25/-29	-34/-30
Copper Corrosion	D130	1a	1b	1a	1a	1a	-
Foaming Sequence I, II, III	D892	<10/0	<10/0	<10/0	<10/0	<10/0	<10/0
Demulsibility, min.	D1401	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Evaporation, %	D972	<1.0	<1.0	1	1	1	1
Carbon Residue, %	D189	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Specific Gravity	D4052	0.96	0.96	0.96	0.95	0.93	0.92

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



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SPECIFICATIONS

- DIN 51506 VDL
- ISO/DP 6521-L-DAB medium duty
- ISO 6743-3:2003 DAB severe duty

COMPATIBILITY NOTES

- Compatible with most mineral and synthetic oils
- Compatible with most process gases
- Not compatible with all seal materials, and some older compressors may need to have the seals changed before they can be run on the new grades.
- Acceptable with high nitrile content (SE85) >36% acrylonitrile / Majority acceptable medium nitrile content (SE70) 30 36% acrylonitrile
- Not recommended Low nitrile content
- Not compatible with many conventional paints, high quality epoxy paints are recommended.
- Not recommended for the lubrication of components manufactured from Aluminum or Aluminum alloys.

SHELF LIFE

- Standard shelf life of (5) years from DOM applies to this product
- Shelf life may be extended and/or recertified upon individual case please contact your Ultrachem, Inc. representative

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)

PACKAGING & SHIPPING 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)
(6) 1 gallon case (22.7 L)
3 business days
1-3 business days
3-8 business days





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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