



Hydroclear Diamond Class[®] Rotary Compressor Fluid

Conoco Hydroclear Diamond Class[®] Rotary Compressor Fluid is a premium quality lubricant developed for use in rotary air compressors, operating under moderate-to-severe service conditions. The semi-synthetic formulation provides high thermal and oxidative stability during air compression, improved low-temperature fluidity, and outstanding protection against carbon and varnish deposits.

Hydroclear Diamond Class[®] Rotary Compressor Fluid is available in two viscosity grades: ISO 32/46 and 68. It has good detergency to help minimize deposit formation and low volatility to help reduce oil consumption. It also has good water-separating characteristics and is resistant to foam buildup.

Hydroclear Diamond Class[®] Rotary Compressor Fluid is not recommended for use in reciprocating compressors or gas compression service.

Applications

- Oil flooded rotary screw, rotary lobe and rotary vane air compressors
- Circulating systems requiring a semi-synthetic lubricant
- Industrial equipment operating over a wide temperature range where an inhibited mineral oil is recommended
- Industrial equipment where operating conditions are too severe for conventional mineral oil-based R&O lubricants

Hydroclear Diamond Class[®] Rotary Compressor Fluid meets the performance requirements of:

- DIN 51506, Air Compressor Lubricant Standard, Grade VDL
- DIN 51517 Part 2, Lubricating Oils, Type CL
- DIN 51517 Part 3, Lubricating Oils, Type CLP

Outstanding Features

- Semi-synthetic formulation
- Excellent thermal stability to resist breakdown at high temperatures
- Excellent oxidation resistance to help minimize sludge and varnish formation
- Good wear protection

Premium Semi-Synthetic Rotary Air Compressor Fluid

**U.S. Technical Services Hot line:
1-800-255-9556**

**U.S. Customer Service:
1-800-640-1956**

**International:
+1-832-486-3363**

**Asia-Pacific:
tel: (65) 6536-0010
fax: (65) 6536-0012**

**E-mail address:
*conocolubricants@conocophilips.com***

www.lubes.conoco.com

600 N. Dairy Ashford • 2W9000 • Houston, TX 77079

- Good rust and corrosion protection
- Natural detergency
- Good low-temperature properties
- Good water-separating characteristics
- Good foam resistance
- Low carbon-forming tendencies

Hydroclear Diamond Class[®] Rotary Compressor Fluid

Typical Properties

ISO Grade	32/46	68
Specific Gravity @ 15.6°C (60°F)	0.854	0.855
Density, lbs/gal	7.12	7.13
Flash Point (COC), °C (°F)	232 (450)	229 (444)
Pour Point, °C (°F)	-40 (-40)	-26 (-15)
Viscosity,		
cSt @ 40°C	40.0	60.0
cSt @ 100°C	6.5	8.5
SUS @ 100°F	187	310
SUS @ 210°F	48	55
Viscosity Index	108	113
Acid Number, ASTM D974, mg KOH/g	0.01	0.01
Demulsibility, ASTM D1401, minutes to pass	5	5
Foam Test, ASTM D892	Pass	Pass
Oxidation Stability, RPVOT, ASTM D2272, minutes	2,000	2,000
Rust Test, ASTM D665 A&B	Pass	Pass

Due to continual product research and development, the information contained herein is subject to change without notification.

Copyright © ConocoPhillips Company. The ConocoPhillips logo, Conoco, and the Conoco logo are registered trademarks of ConocoPhillips Company in the U.S.A. and other countries.