

## ConocoPhillips Hydroclear Diamond Class® 100 Turbine Oil

Category : Fluid , Lubricant

### Material Notes:

Description: Conoco Hydroclear Diamond Class Turbine Oil is an extended service life rust- and oxidation-inhibited turbine oil formulated from exclusive Conoco hydrocracked base stock. Hydroclear Diamond Class Turbine Oil is specially formulated with proprietary additive chemistry to meet the demands of severe- and long-life turbine service. Hydroclear Diamond Class Turbine Oil has demonstrated successful performance results in severe duty General Electric Frame 7 gas turbines used in co-generation service, easily surpassing historical performance of "premium" turbine oils. It can also be used successfully in steam turbines and other applications which require premium quality rust- and oxidation-inhibited circulating oils. Information provided by ConocoPhillips.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ConocoPhillips-Hydroclear-Diamond-Class-100-Turbine-Oil.php](http://www.lookpolymers.com/polymer_ConocoPhillips-Hydroclear-Diamond-Class-100-Turbine-Oil.php)

| Physical Properties                  | Metric     | English                   | Comments        |
|--------------------------------------|------------|---------------------------|-----------------|
| Density                              | 0.869 g/cc | 0.0314 lb/in <sup>3</sup> |                 |
| Viscosity Measurement                | 100        | 100                       | Viscosity Index |
| Saybolt Viscosity at 100°F           | 495 SUS    | 495 SUS                   |                 |
| Saybolt Viscosity at 210°F           | 63 SUS     | 63 SUS                    |                 |
| Kinematic Viscosity at 40°C (104°F)  | 95 cSt     | 95 cSt                    |                 |
| Kinematic Viscosity at 100°C (212°F) | 11 cSt     | 11 cSt                    |                 |
| Oxidative Stability                  | 17500 hour | 17500 hour                | ASTM D 943      |
| ASTM Color                           | 0.50       | 0.50                      |                 |

| Thermal Properties                  | Metric   | English  | Comments    |
|-------------------------------------|----------|----------|-------------|
| Pour Point                          | -28.9 °C | -20.0 °F |             |
| Rotating Bomb Oxidation Test (RBOT) | 1900 min | 1900 min | ASTM D 2272 |
| Flash Point                         | 254 °C   | 490 °F   |             |

| Electrical Properties | Metric        | English      | Comments                      |
|-----------------------|---------------|--------------|-------------------------------|
| Dielectric Strength   | >= 30.0 kV/mm | >= 762 kV/in | No thickness given; ASTM D877 |

| Descriptive Properties             | Value      | Comments         |
|------------------------------------|------------|------------------|
| Corrosion, Copper Strip            | 1A         | ASTM D130        |
| Emulsion Characteristics (40-40-0) | 10 minutes | Water Separation |

| Descriptive Properties<br>Foam Control (Sequence I,II,III) | Value      | Comments |
|--|------------|----------|
| Zinc   | Max 10 ppm |          |

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