



## Hydroclear™ EP Gear Oil

Conoco Hydroclear™ EP Gear Oil is a premium extreme-pressure industrial gear lubricant with superior deposit control. It is specially formulated with proprietary additive chemistry and premium hydrocracked base oil.

Hydroclear™ EP Gear Oil provides “clean gear” performance with exceptional oxidation inhibition, EP load-carrying capacity, foam control, rust and corrosion protection and rapid demulsibility. It is capable of extending intervals between oil changes by providing “clean gear” performance, coupled with superior oxidation control.

### **Applications**

Severe service enclosed gearboxes.

Hydroclear™ EP Gear Oil meets the requirements of Cincinnati Machine specifications P-63, 76, 77, 74, 59 and 35.

Hydroclear™ EP Gear Oil exceeds the latest AGMA Specification 9005-E02 (replacement for 250.04) and U.S. Steel 224 Specification for enclosed gear lubricants.

It meets the performance requirements of the following manufacturers:

- David Brown
- Flender
- Lufkin
- Amarillo
- Falk
- Hansen

### **Outstanding Features**

- Exceptional oxidation resistance and thermal stability – longer life, cleaner systems
- Long-life oil – extended drain capability
- Superior deposit control – “clean gear” performance
- Excellent load-carrying capacity protects gears from wear
- Rapid low-temperature water separation
- Superior rust and corrosion protection
- Superior foam release in service

**Hydrocracked  
Premium Extreme-  
Pressure Industrial  
Gear Oil**

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**Hydroclear™ EP Gear Oil**  
**Typical Properties**

<b>ISO Grade</b>	<b>68</b>	<b>100</b>	<b>150</b>	<b>220</b>	<b>320</b>	<b>460</b>
<b>AGMA Grade</b>	<b>2 EP</b>	<b>3 EP</b>	<b>4 EP</b>	<b>5 EP</b>	<b>6 EP</b>	<b>7 EP</b>
Viscosity,						
cSt at 40°C	72	104	154	222	323	439
cSt at 100°C	8.7	11.1	14.4	18.4	23.7	29.3
SUS at 100°F	374	542	810	1174	1722	2352
SUS at 210°F	56	64	77	94	118	144
Viscosity Index	98	98	98	98	98	98
Pour Point,						
°F	-30	-30	-15	-5	0	0
°C	-34	-34	-26	-21	-18	-18
Flash Point,						
°F	455	455	470	480	490	490
°C	235	235	243	249	254	254
ASTM Color	2.5	3.0	3.0	4.0	4.5	5.0
Density, lb/gal	7.29	7.34	7.37	7.40	7.43	7.46
Specific Gravity, @ 60°F (15.6°C)	0.875	0.880	0.884	0.888	0.891	0.895
Oxidation Control (ASTM D2893,						
vis. increase %)	1.2	1.2	1.8	2.3	3.0	4.6
Foam Control (Sequence I,II,III)	0-0	0-0	0-0	0-0	0-0	0-0
Emulsion Characteristics						
(min. to 40-40-0)	15	15	15	15	15	25
Four-Ball Weld Load (kg)	250	250	250	250	250	250
Four-Ball Wear (mm)	0.30	0.30	0.30	0.30	0.30	0.30
FZG Load Stage, Pass (ASTM D5182)	12	12	12	12	12	12
Timken OK Load, lb	70	70	70	70	70	70
Copper Corrosion Test	1B	1B	1B	1B	1B	1B

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

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