



## Multipurpose R&O Oil

Conoco Multipurpose R&O Oil is a rust and oxidation-inhibited industrial oil with ashless wear protection formulated from hydrocracked base stocks. Multipurpose R&O Oil is specially formulated with proprietary additive chemistry and is recommended for use in a variety of systems which require rust and oxidation-inhibited oils. The added benefit of mild antiwear protection can significantly increase equipment life.

### **Applications**

General purpose lubrication, air compressors, steam turbines, hydraulic systems, circulating oil systems, oil-filled couplings, centrifugal pumps and lightly loaded gearboxes.

Multipurpose R&O Oil is approved by Cincinnati Machine under specifications P-38 (ISO 32), P-55 (46) and P-54 (68). Multipurpose R&O Oil meets Vickers I-286-S requirements.

Multipurpose R&O Oil 46 is approved by Alston against specification HTGD 90117 for use in their general gas and steam turbine.

### **Outstanding Features**

- Exceptional oxidation resistance and thermal stability – long life, cleaner systems
- Non-zinc (ashless) antiwear additive
- Long service life
- Excellent control of varnish and deposits
- Rapid water separation and good hydrolytic stability
- Superior rust and corrosion protection
- Quick foam release

**Hydrocracked  
Rust And  
Oxidation-Inhibited  
Industrial Oil**

**U.S. Technical  
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1-800-640-1956**

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**Multipurpose R&O Oil**  
**Typical Properties**

<b>ISO Grade</b>	<b>32</b>	<b>46</b>	<b>68</b>	<b>100</b>	<b>150</b>	<b>220</b>	<b>320</b>	<b>460</b>
<b>AGMA Grade</b>	<b>—</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
Viscosity,								
cSt @ 40°C	31	45	68	99	149	221	318	435
cSt @ 100°C	5.4	6.7	8.8	11.2	14.9	18.9	23.9	29.1
SUS @ 100°F	160	232	352	516	783	1169	1694	2331
SUS @ 210°F	44	49	56	65	78	96	119	143
Viscosity Index	108	100	100	100	95	95	95	95
Pour Point,								
°F	-40	-30	-30	-30	-20	5	5	5
°C	-40	-34	-34	-34	-29	-15	-15	-15
Flash Point,								
°F	450	460	469	514	531	545	580	585
°C	239	238	243	268	277	285	304	307
ASTM Color	0.5	0.5	0.5	0.5	3.0	4.0	5.0	5.5
Density,								
lb/gal	7.18	7.22	7.25	7.27	7.31	7.37	7.41	7.45
g/ml	0.86	0.87	0.87	0.87	0.88	0.88	0.89	0.89
Oxidation Control,								
(ASTM D943, hr)	4000	4000	4000	4000	3000	3000	3000	2000
RPVOT,								
(ASTM D2272, min)	750	750	750	750	600	600	600	550
Emulsion Characteristics,								
(min to 40-40-0)	10	10	10	10	15	20	25	25
Four-Ball Wear (mm)	0.41	0.41	0.41	0.43	0.45	0.40	0.40	0.40
FZG (ASTM D5182,								
load stage)	9	9	9	11	12	12	12	12
Copper Corrosion Test	1A	1A	1A	1A	1A	1A	1A	1A
ASTM Rust Test A&B	pass	pass	pass	pass	pass	pass	pass	pass

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

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