



Rolling Oil

Conoco Rolling Oil is a multipurpose rolling oil formulated with hydrocracked base stocks and proprietary additive chemistry. Rolling Oil provides exceptional oxidation resistance, foam control, rust and corrosion protection and rapid low-temperature demulsibility.

Applications

Rolling applications for non-ferrous materials, such as aluminum, copper, brass and other copper alloys.

Rolling Oil is nonstaining, does not contain zinc and provides very good wear protection for use in hydraulic systems. Rolling Oil also can be used as an exceptional bearing lubricant and as a roll-coating oil in most mill applications.

Rolling Oil meets the performance requirements of Vickers I-286-S and U.S. Steel 127 and 136.

Outstanding Features

- Exceptional oxidation resistance and thermal stability – two to three times the life of conventional products
- Low color (ISO 10 through 68) – allows an untainted view of the metal surface
- Nonstaining – aluminum, copper and copper alloys – won't discolor finishes
- Superior rust and corrosion protection
- Excellent wear protection for gears and bearings
- Good hydraulic performance
- Rapid low-temperature water separation
- Quick foam release

Multipurpose Rolling Oil

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**Rolling Oil
Typical Properties**

ISO Grade	10	15	46	68	150	320	460
Viscosity,							
cSt @ 40°C	12	17	46	66	150	308	411
cSt @ 100°C	2.9	3.7	67	8.7	15.1	24.2	29.0
SUS @ 100°F	70	91	232	342	786	1635	2195
SUS @ 210°F	36	39	49	56	80	120	142
Viscosity Index							
	90	100	100	100	100	100	100
Pour Point,							
(°F)	-50	-45	-35	-35	-20	5	5
(°C)	-45	-43	-37	-29	-15	-15	-37
Flash Point,							
(°F)	360	385	450	420	500	520	550
(°C)	182	196	216	260	260	288	232
ASTM Color							
	0.5	0.5	0.5	0.5	3.0	5.0	5.5
Density (lb/gal)							
	7.08	7.14	7.23	7.23	7.32	7.41	7.45
Oxidation Control (ASTM D943, hr)							
	12000	12000	12000	12000	5000	5000	2000
RBOT (ASTM D2272, min)							
	750	750	750	750	600	600	600
Foam Control (Sequence I,II,III)							
	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0	0-0-0
Emulsion Characteristics							
(min to 40-40-0)	5	5	20	20	20	20	20
Four-Ball Weld Load (kg)							
	160	160	160	160	160	160	160
Four-Ball Wear (mm)							
	0.48	0.45	0.42	0.42	0.42	0.42	0.42
FZG (ASTM D5182, load stage)							
	—	9	12	12	12	12	12
Rust Protection							
(ASTM D665, part A&B)	pass	pass	pass	pass	pass	pass	pass
Copper Corrosion							
	1A	1A	1A	1A	1A	1A	1A

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

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