



76 Circulating Oil 2450

76 Lubricants Circulating Oil 2450 is a high-quality, rust and oxidation-inhibited (R&O) circulating oil developed for the lubrication of backup roll bearings in steel and aluminum rolling mills. It is specially formulated to provide the rapid water separation required in hot and cold rolling mill operations.

Circulating Oil 2450 is available in one viscosity grade: ISO 460. It is formulated with high-quality paraffinic base oils and select additives to provide good oxidation resistance, rust and corrosion protection, and resistance to foaming. It has good oxidation resistance and thermal stability at high temperatures to minimize sludge and varnish formation, and provide long service life. It has excellent water-separating properties to minimize the formation of emulsions in circulating systems subject to contamination with large quantities of water, rolling solutions, dirt and scale. It protects system components against rust and corrosion, and is resistant to excessive foam buildup that can interfere with proper lubrication.

Applications

- Backup roll bearings in hot and cold rolling mills
- Circulating systems where water contamination is a problem

Circulating Oil 2450 meets the performance requirements of:

- ARMCO Circulating Oil
- U.S. Steel 135, Mill Circulating Oil

Features/Benefits

- Excellent water-separating properties
- Good oxidation resistance and thermal stability
- Protects against rust and corrosion
- Good foam resistance

**Inhibited
Rolling Mill
Circulating Oil**

**Customer Service
Number:
1-888-766-7676**

**Technical Hot Line:
1-800-435-7761**

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Typical Properties

ISO Grade	460
Density, g/cm ³ @ 15.6°C (60°F)	0.895
Density, lbs/gal @ 15.6°C (60°F)	7.45
Color, ASTM D1500	5.0
Flash Point (COC), °C (°F)	307 (585)
Pour Point, °C (°F)	-15 (5)
Viscosity,	
cSt @ 40°C	464
cSt @ 100°C	30.6
SUS @ 100°F	2,488
SUS @ 210°F	150
Viscosity Index	96
Acid Number, ASTM D974, mg KOH/g	0.14
Copper Corrosion, ASTM D130	1a
Demulsibility, ASTM D1401, minutes to pass	25
Demulsibility, Free Water @ 82°C, ASTM D2711, ml	35
Foam Test, ASTM D892	Pass
Rust Test, ASTM D665 A&B	Pass

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

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

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