



Circulating Oil

Circulating Oil is a high-quality, rust-inhibited mineral oil specially developed for the lubrication of conveyor and crusher bearings in copper crushing mills.

Circulating Oil is formulated to provide protection against rust and corrosion and resistance to foaming. It has excellent water-separating properties to minimize the formation of emulsions in circulating systems subject to contamination with large quantities of water, minerals, dirt and scale.

Applications

- Ball mills, cement mills, hot and cold strip mills, plate mills
- Conveyor bearings in mining applications
- Plain and rolling-element bearings in ferrous and non-ferrous mills
- Circulating systems where water contamination is a problem
- Large, slow-speed bearings in mixers and mills

Features/Benefits

- Excellent water-separating properties to minimize the formation of emulsions
- Good oxidation resistance
- Protects against rust and corrosion
- Good foam resistance

**Rust-Inhibited
Circulating Oil
For
Crushing Mills**

CONTACT INFORMATION

**Phillips66
Lubricants.com**

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Circulating Oil Typical Properties

| ISO Grade | 150 |
|--|-----------|
| Specific Gravity @ 60°F | 0.878 |
| Density, lbs/gal @ 60°F | 7.31 |
| Color, ASTM D1500 | 2.0 |
| Flash Point, COC, °C (°F) | 277 (531) |
| Pour Point, °C (°F) | -15 (5) |
| Viscosity | |
| cSt @ 40°C | 153 |
| cSt @ 100°C | 14.7 |
| SUS @ 100°F | 805 |
| SUS @ 210°F | 78.5 |
| Viscosity Index | 95 |
| Acid Number, ASTM D874, mg KOH/g | 0.05 |
| Demulsibility, ASTM D1401, minutes to pass | 5 |
| 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://w3apps.phillips66.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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