



## Circulating Oil

Phillips 66® 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





## Circulating Oil

| Typical Properties                         |            |
|--|------------|
| <b>ISO Grade</b>                           | <b>150</b> |
| 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, Seq. I, mL           | 0/0        |
| Rust Test, ASTM D665 A&B                   | Pass       |

## Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.