



Quintolubric® 822-450

Quintolubric® 822-450 is a premium quality, synthetic, fire-resistant hydraulic fluid specifically developed for use in industrial and mobile equipment operating in areas subject to fire hazards, such as in underground mining operations, steel mills and foundries. It is approved by the MSHA for use in underground mining equipment. It also is readily biodegradable for reduced environmental in case of leaks or spills.

Quintolubric® 822-450 is formulated with synthetic polyol ester (POE) base oil and select ashless additives to provide outstanding fire resistance and excellent lubrication and wear protection for hydraulic pumps and motors. It also protects hydraulic system components against rust and corrosion. It has outstanding oxidation resistance and thermal stability at high temperatures, plus excellent detergency, to protect against sludge and varnish formation, and provide long service life. It is readily biodegradable as determined by the CEC-L33-A97 test method.

Quintolubric® 822-450 does not contain water, mineral oil or phosphate ester. It may be used in hydraulic systems designed for conventional mineral oil-based hydraulic fluids without compromising overall hydraulic system integrity. However, it should **not** be mixed with other fluid types. When converting from water-glycol fluids, invert emulsions or phosphate esters, the system should be flushed prior to conversion, and seal compatibility should be verified.⁽¹⁾

Applications

- Hydraulic systems subject to fire hazards and/or extreme heat
- Underground mining equipment requiring a fire-resistant, MSHA-approved hydraulic fluid
- Steel mills, foundries and manufacturing plants

Features/Benefits

- Fire resistant
- High flash point, fire point and autoignition temperature for reduced fire/explosion hazard
- Outstanding oxidation resistance and thermal stability at high temperatures
- Excellent wear protection for hydraulic pumps and motors
- Protects against rust and corrosion
- Good low-temperature fluidity
- Nontoxic, non-irritating and contains no hazardous ingredients

**Synthetic Polyol Ester,
Fire-Resistant Hydraulic Fluid;
MSHA & FMRC Approved; Readily Biodegradable**

Contact Information

**U.S. Customer Service:
1-800-822-6457**

**Technical Hot Line:
1-800-766-0050**

**International Customer Service:
+1-832-486-3363
+1-832-486-3870**

**E-mail address:
lubricants@
conocophillips.com**

<http://lubricants.conocophillips.com>

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- Readily biodegradable
- Fire resistance certified by Factory Mutual Research Corporation
- MSHA approved (Approval Number 30-20-3)

⁽¹⁾ **Note:** For information on fluid conversion or seal and elastomer compatibility, please call our Technical Support Hot Line.

Quintolubric® 822-450

Typical Properties

Grade	822-450
ISO Grade	100
Specific Gravity @ 60°F	0.919
Density, lbs/gal @ 60°F	7.66
Appearance, Visual	Light Amber
Flash Point (COC), °C (°F)	270 (518)
Fire Point (COC), °C (°F)	360 (680)
Autoignition Temperature, ASTM E659, °C (°F)	450 (842)
Pour Point, °C (°F)	-20 (-4)
Viscosity,	
cSt @ 40°C	100
cSt @ 100°C	14.8
SUS @ 100°F	512
SUS @ 210°F	79
Viscosity Index	155
Acid Number, ASTM D974, mg KOH/g	2.0
Copper Corrosion, ASTM D130	1b
Foam Test, ASTM D892	Pass
Rust Test, ASTM D665 A	Pass
FZG Scuffing Test, ASTM D5182, Failure Load Stage	>12
Biodegradability in 28 Days, CEC-L33-A97, %	>90

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>.

Note: Quintolubric® is a registered trademark of Quaker Chemical Corporation.

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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