

EQO-PURE 450

Heavy Duty Vegetable Derived Micro-Emulsion

Performance Benefits

- Non-staining to all grades of aluminum
- Oil-free synthetic technology provides reduced mist and low smoke operation
- Operator friendly- this product has virtually no odor in use and is very mild to the skin
- Extremely clean running fluid
- Minimal additive requirements
- Low foaming in both soft and hard water
- Superior in-process corrosion protection for machinery and parts
- Exceptional rancidity control to prevent unpleasant odors
- Complete rejection of tramp oil
- I-3 Approved

EQO-PURE 450 is a heavy duty vegetable derived micro-emulsion cutting and grinding fluid formulated for severe machining of aluminum and exotic alloys such as titanium, hastalloy and waspaly. This fluid is suitable for use in both central systems and individual sumps. Typical operations include boring, deep hole drilling, gundrilling, reaming, roll forming, tapping, and threading. EQO-PURE 450 provides both ferrous and non-ferrous corrosion protection and is suitable for aerospace applications. This fluid contains a new generation of additive technology to improve tool life and part quality without the problems associated with extreme pressure additives such as chlorine, sulfur, and phosphorous. EQO-PURE 450 utilizes a unique synthesized vegetable base stock proven to give excellent machining performance while maintaining hydrolytic stability. This product offers the performance of a vegetable oil without the heavy residues and emulsion instability found in competitive products. EQO-PURE 450 forms a stable emulsion and runs exceptionally clean offering the benefit of unmatched performance at the point of cut coupled with long service life.

Typical Characteristics

Appearance of concentrate.....	Amber liquid
Appearance of emulsion.....	Semi-Translucent
Density	8.01 lbs./gal
pH of 5% emulsion.....	8.9-9.3
Chlorine, Diethanolamine, Formaldehyde Release Biocides, Mercurials, Nitrite, Phosphates, Silicones, Sulfur.....	None

Recommended Dilutions

EQO-PURE 450 is to be mixed with water for use (add concentrate to water)

Grinding:	3-5%
Machining:	4-12%

Concentration Control

The chart below was prepared using an Atago Master M refractometer and dilutions of EQO-PURE 450 in distilled water. Refractometer readings can vary with the type of water and refractometer used. Atago Master M refractometers are available from QualiChem, Inc.

CONCENTRATION %:	3	4	5	6	7	8	10	12
REFRACTOMETER READING:	2.8	3.7	4.6	5.5	6.4	7.4	9.2	11.0

Packaging

EQO-PURE 450 is packaged in 310-gallon, one-way tote tanks and 55-gallon, non-returnable steel drums. Bulk and 5-gallon pails are also available.

QUALICHEM
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