

EQO-PURE 430

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
- Economical in use cost- low price per gallon and very low usage rates as a result of low drag out rates and long sump life
- 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

EQO-PURE 430 is a vegetable derived micro-emulsion cutting and grinding fluid formulated for moderate to severe machining of aluminum alloys. The fluid is suitable for use in both central systems and individual sumps. EQO-PURE 430 also provides both ferrous and non-ferrous corrosion protection and is suitable for aerospace applications. Typical operations include boring, drilling, facing, reaming, sawing, tapping, threading, and turning. 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 430 utilizes a synthesized vegetable oil base stock proven to give excellent machining performance. This product contains no petroleum oil. While many vegetable oil emulsions leave heavy residues due to instability in water, EQO-PURE 430 forms a stable emulsion and runs exceptionally clean.

Typical Characteristics

Appearance of concentrate	Amber liquid
Appearance of emulsion.....	Translucent
Density	8.34 lbs./gal
pH of 5% emulsion.....	8.8-9.2
Chlorine, Diethanolamine, Formaldehyde Release Biocides, Mercurials, Nitrite, Phosphates, Silicones, Sulfur.....	None

Recommended Dilutions

EQO-PURE 430 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 430 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:	1.9	2.5	3.1	3.7	4.3	5.0	6.2	7.4

Packaging

EQO-PURE 430 is packaged in 310-gallon, one-way tote tanks and 55-gallon, non-returnable steel drums. Bulk and 5-gallon pails are also available.

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