

XTREME CUT 231

Premium Semi-Synthetic with EP

Performance Benefits

- Operator friendly- this product has virtually no odor in use and is very mild to the skin
- Extended tool life- reduces noise, flank, and crater wear and prevents built up edge
- Long fluid life in both central systems and individual sumps
- Residue free parts and machine tools
- Complete rejection of tramp oil
- Easily recycled for reuse or easy waste treatment using standard metalworking fluid waste treatment systems
- Bimetallic corrosion protection for parts and machine tools

XTREME CUT 231 is a premium semi-synthetic fluid for machining and grinding ferrous and non-ferrous alloys. This universal fluid delivers the lubricity and versatility of a premium soluble oil, yet has the cleanliness and heat control of a synthetic. **XTREME CUT 231** is designed for use on a wide range of metals, making it well suited for job shop operations. The product contains an extreme pressure additive as well as other high performance additives to improve tool life and part quality. **XTREME CUT 231** also has excellent corrosion control for ferrous metals. The fluid has a tight emulsion to promote tramp oil rejection and exhibits excellent hard water stability up to 35 grains of hardness. **XTREME CUT 231** utilizes state of the art raw materials to prevent the rotten egg odors associated with most soluble oils and semi-synthetic fluids. The fluid runs clean, has excellent bioresistance, and is low foaming.

Typical Characteristics

Appearance of concentrate.....	Dark blue liquid
Appearance of emulsion.....	Translucent, blue
Density	8.39 lbs/gal
Specific gravity.....	1.005
pH of 5% emulsion.....	8.8-9.2
Diethanolamine, Formaldehyde Release Biocides, Mercurials, Nitrite, Phenols, Phosphates, Silicones, Sulfur.....	None

Recommended Dilutions

XTREME CUT 231 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 **XTREME CUT 231** 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	2.6	3.2	3.8	4.5	5.1	6.4	7.7

Packaging

XTREME CUT 231 (Formerly Q-CUT 231) is packaged in 310-gallon, one-way tote tanks and 55-gallon, non-returnable steel drums. Bulk and 5-gallon pails are also available. An undyed version is also available as **XTREME CUT 231C**.