



## CommQuest™ HD Synthetic Grinding and Metalworking Fluid



### WHAT IT DOES:

**CommQuest™ HD** is non-chlorinated, fully synthetic, exceptionally low foaming, high performance, precision production grinding and metalworking fluid designed for use on both ferrous and non-ferrous metals. **CommQuest™ HD** employs New Generation additive chemistry that allows the product to deliver both high lubricity and excellent heat extraction in a single product without compromising either benefit.

**CommQuest™ HD** shows outstanding foam control through all ranges of water hardness, even in through-the-tool delivery systems operating up to 3,000 PSI delivery pressure. This product is ideally suited for use in today's high pressure and high velocity fluid delivery systems. In normal use concentrations, **CommQuest™ HD** also exhibits superior misting resistance that can assist in meeting today's tougher air quality standards.

**CommQuest™ HD** is safe to use on most metals, and is non-staining to brass, copper, and other yellow metals.

**CommQuest™ HD** incorporates a very effective rust inhibitor package, and gives excellent corrosion protection, even at diluted concentrations.

### WHERE TO USE IT:

**CommQuest™ HD** can be used in a wide variety of machining applications including all grinding and general machining work, including milling, drilling, shaping, turning, boring, tapping and threading. When tapping exceptionally draggy or tough metals, the concentration should be boosted to a richer concentration to provide additional lubricity. **CommQuest™ HD** has been shown effective in high-pressure fluid delivery systems, and is exceptionally low foaming.

For high performance production grinding work, **CommQuest™ HD** provides exceptional heat control, and resists wheel loading, keeping the wheels clean. Due to its unique chemistry, **CommQuest™ HD** rapidly drops swarf and fines, keeping the grinding solution cleaner, and free of contaminants.

**Recommended dilutions:** For most grinding and machining operations, dilute from 25:1 to 10:1.

As with all water based machining fluids, the best results are obtained when the fluid is mixed with quality water. Use de-ionized, distilled, reverse osmosis water or a combination for best results. Total dissolved solids, even after numerous cycles of concentration, will always be less when beginning with quality water.

### PERFORMANCE BENEFITS:

**CommQuest™ HD** is especially formulated to deliver the following results:

- Safe to use on most metals, and is non-staining to brass, copper, and other yellow metals
- Delivers both high lubricity and excellent heat extraction
- Provides exceptional heat control, and resists wheel loading, keeping the wheels clean
- Effective rust inhibitor package and gives excellent corrosion protection, even at diluted concentrations.
- Rapidly drops swarf and fines, keeping the grinding solution cleaner, and free of contaminants



2080 FERRISS ROAD NORTH, HARROW, ONTARIO, CANADA N0R 1G0

519-738-3503 • 800-265-3689 • FAX- 519-738-3335 inquiries@commonwealthoil.com • www.commonwealthoil.com



## TECHNICALLY SPEAKING:

Test	CommQuest™ HD
Appearance, concentrate	Dark Green
Appearance, diluted	Light Green
Odour	Mild, pleasant
Specific Gravity	1.05
Density, pounds per gallon	8.7 pounds per gallon
Flash Point	Not applicable
pH, Concentrate	10.0
pH, 5% solution	9.5
Stability, 400 PPM water	Stable
Foam Test, 100 PPM water	Virtually no foam
Rust Test, 400 PPM water	Pass at 4%
Rust Test, 100 PPM water	Pass at 2%
Refractive Index (RI) Factor	Multiply RI by 3.1 for Concentration %
RI for 5% Solution	1.6
RI for 10% Solution	3.2

These are typical figures and do not constitute a specification.

### Handling & Safety Information

For information on the safe handling and use of this product, refer to the Material Safety Data Sheet obtainable from Commonwealth Oil Corporation.



**Available in Pails, Drums and One-Way Bulk Containers**

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