

METAL REMOVAL FLUIDS

QUAKERCOOL® 7020 CG MICRO-EMULSION APPLICATION SHEET

BENEFITS

- » **Advanced lubrication** with a unique approach to machining that has demonstrated very significant reductions in tool wear involving CGI applications
- » **Micro-Emulsion** forms a tight, very stable micro-emulsion that provides excellent boundary lubrication for high-speed operations, rejects tramp oil, and reduces carry-off
- » **Rinses clean** leaving no tacky residue
- » **Fines handling** disperses and settles fines and chips effectively
- » **Low foaming** in soft-to-moderate water hardness conditions
- » **Excellent corrosion protection** on cast iron and steel at to low concentrations
- » **Resists microbiological growth** without biocide tank-side additions

APPLICATIONS

The product of extensive research and field experience, QUAKERCOOL® 7020 CG excels in heavy-duty Machining, Grinding and Honing operations on Compacted Graphite Iron (CGI). In CGI machining operations this product yields significant savings in tool wear, and does an excellent job of handling chips and swarf. QUAKERCOOL® 7020 CG is also very effective on other ferrous materials as well.

STORAGE AND HANDLING

QUAKERCOOL® 7020 CG is available in drums (54 gal/437 lbs) or totes (320 gal/2,595 lbs). All containers are filled to volume by weight.

This product has a shelf life of 6 months. Like most chemicals, it should be stored out of direct sunlight in temperatures between 40°F (4°C) and 110°F (43°C).

PROPERTIES - CONCENTRATE

PROPERTY	TYPICAL VALUE
Appearance	Clear to Translucent Amber
Pounds per gallon at 60°F	8.11
Flash Point via COC	Does Not Flash
Odor	Mild Amine
Neat pH	10.5

PROPERTIES - DILUTION

PROPERTY	TYPICAL VALUE
Appearance at 7%	Stable translucent emulsion
pH at 7% distilled water	9.47



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CLEANING AND PROTECTING

To clean and protect after the metal removal operation, use QUAKERCLEAN® (cleaners) and FERROCOTE® (corrosion preventives) to enhance process compatibility. Consult your Quaker representative, for more information.

CONCENTRATION CONTROL

Good control of coolant concentration is important to maintain optimum metalworking performance, as well as to insure the chemical and biological stability of your fluids. Proper concentration also helps keep your total operating cost - including tooling and chemicals - at a minimum.

The best method for checking the concentration of QUAKERCOOL® 7020 CG is to titrate using a pH meter and a dilute acid.

FLUID MAINTENANCE

QUAKERCOOL® 7020 CG must be mixed into water prior to use. Always add product to water to avoid creating an invert emulsion. Where possible, use of a premix device will guarantee consistency and performance. For machining and abrasive operations, the typical dilution range is 5.0 - 10.0%. More severe applications may require higher concentrations.

CUSTOMERS

» Paccar

quakerchem.com | 1.800.523.7010