



QUAKERDRAW® CH 1000 METALFORMING LUBRICANT

APPLICATION SHEET

BENEFITS

- » Superior lubrication to increase die and punch life
- » High film strength additives reduce scratching and galling on parts and dies
- » Parts processed with this product are easily cleaned with solvent or alkaline cleaners
- » Chlorine-free, does not contain any chlorine lubricants or additives
- » Does not contain pigments, graphite, molybdenum disulfide or any other solids
- » Excellent corrosion protection that will not stain or corrode parts or machines

APPLICATIONS

QUAKERDRAW® CH 1000 is formulated to be a "cost effective" alternative to more expensive lubricants used in cold forging and heading. It offers high performance without the use of chlorine and has been designed for use with both regular and alloy-coated tooling. It is suitable for multiple stage operations.

STORAGE AND HANDLING

QUAKERDRAW® CH 1000 is available in drums (54 gal/405 lbs) or totes (320 gal/2,400 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 $40^{\circ}F$ ($4^{\circ}C$) and $110^{\circ}F$ ($43^{\circ}C$).

PROPERTIES

PROPERTY	TYPICAL VALUE
Appearance	Clear Dark Amber
Pounds per gallon at 60°F	7.5 lbs/gal
Flash Point (COC)	419°F/215°C
Viscosity at 100°F	487 SUS / 105 cSt
Odor	Petroleum
VOC (ASTM E1868-10 TGA)	3.9 g/L





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CLEANING AND PROTECTING

To clean and protect, after the drawing and stamping operation, use Quaker cleaners (QUAKERCLEAN®) and corrosion preventives (FERROCOTE®) to enhance process compatibility. Consult your Quaker representative.

FLUID MAINTENANCE

Use as received. Do not dilute

CUSTOMERS

- » Delphi
- » Huck Manufacturing
- » Industrial Chemical Co.
- » Industrial Fluid Systems

quakerchem.com | 1.800.523.7010

Prior to using this product, consult the Material Safety Data Sheet for instructions regarding safe handling and environmental issues. The information contained herein is based on data available to us and is believed to be accurate. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR TO BE IMPLIED, REGARDING THE ACCURACY OF THESE DATA. THE RESULTS TO BE OBTAINED FROM THE USE THEREOF, OR THE HAZARDS CONNECTED WITH THE USE OF THE PRODUCT. Quaker Chemical Corporation assumes no liability for any alleged ineffectiveness of the product or any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is solely attributable to negligence on the part of Quaker Chemical Corporation. 013970-04 06/2013