

# CORROSION PREVENTIVE

### FERROCOTE® 61 MAL HCL 1 MILL APPLIED LUBRICANT - AUTOMOTIVE APPROVED

**APPLICATION SHEET** 

#### **BENEFITS**

- » Can be applied by the typical application methods, including electrostatic
- » Used for coating coils at all mill speeds
- » Can be stacked or coiled immediately after application
- » Contains small quantities of emulsifiers for ease of removal in industrial cleaning lines
- » System of high film strength synthetics in combination with organic corrosion inhibitors for use on ferrous and nonferrous surfaces
- » Contains extreme pressure and polar additives for both E.P. lubrication and acid atmosphere protection

#### **APPLICATIONS**

FERROCOTE® 61 MAL HCL 1 is a flexing, blank washing, blanking, stamping, and drawing lubricant. This product is a lubricant-rust preventive that is designed to be applied to sheet steel and/or blanks in any of the aforementioned operations.

#### **FLUID MAINTENANCE**

This product is used as received. It should not be diluted with any type of solvent or oil. Dilution will significantly reduce its performance and quality. Concentration control is not an issue with this product because it is used as received.

Please consult your Quaker representative for more information on proper fluid maintenance.

#### PROCESS COMPATIBILITY

To enhance process compatibility, use Quaker metalworking fluids and cleaners. Consult your Quaker representative.

#### **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.





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#### **PACKAGING AND STORAGE**

FERROCOTE® 61 MAL HCL 1 is available in drums (54 gal/429 lbs) or totes (320 gal/2,544 lbs), and also bulk tank truck. 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**

PROPERTIES	
PROPERTIES	TYPICAL VALUES
Appearance	Translucent, Green Liquid
Specific Gravity at 60°F	7.95 lbs/gal
Flash Point via COC	400°F / 204°C
Fire Point via COC	415°F/212°C
Viscosity at 100°F	210 SUS
Pour Point	<0°F/<-18°C
Film Thickness	0.24 mils
Coverage per Gallon @ 250 mg/ft <sup>2</sup>	14,500 gal/ft²
PERFORMANCE TESTS	
JAN H-792 Humidity Cabinet	15 - 20 days 1010 Cold Rolled Steel

#### **CUSTOMERS**

- » AK Steel
- » American Lubricants
- » Arcelor Mittal Steel
- » Delaco-Kasle
- » Double Eagle Steel Coatings
- » Ford Motor
- » General Motors
- » Industrial Chemical Co.
- » Kenwal Pickling
- » Material Science Corp
- » Nucor Steel
- » Numit
- » ProTec Coating Co.
- » Regional Steel Distribution Co.
- » Severstal NA
- » Spartanburg Steel Stamping
- » ThyssenKrupp
- » US Steel
- » Wheeling-Nisshin
- » Worthington Specialty Products

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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. 011527-11 02/2013