

METAL REMOVAL FLUIDS

QUAKERCOOL® 7101 LF METALWORKING WATER SOLUBLE COOLANT MICRO-EMULSION TYPE

APPLICATION SHEET

BENEFITS

- » In accordance with REACH
- » Low boron content
- » Reduced maintenance cost
- » Excellent foam properties
- » Increase tool life
- » Guaranteed surface finish especially on aluminium alloys

APPLICATIONS

High performance micro-emulsion ideally suited to all operations where high surface finish quality and high lubrication is needed. Ideal for general purpose machining of most engineering materials

Recommended for difficult metalworking operations on cast iron, steel and aluminium

Concentration range:
6 - 12 % depending on type of operation

Make up water hardness:
90 - 270 ppm (9 - 27 °TH, 5 - 15 °DH)

FLUID MAINTENANCE

Poor or incorrect emulsion preparation may lead to instability and could considerably shorten the life of the emulsion. Prior to making any fresh fill, we highly recommend full cleaning including the use of a compatible systems cleaner of all system components which will be in contact with the emulsion. A wide range of system cleaners* and disinfecting additives* are available from Quaker.

*Please consult a Quaker representative for any additional information.

APPLICATION SHEET

STORAGE/PACKAGING

Quaker Chemical can supply this quality product in drums, in containers and in bulk. Other packages can be made available by Quaker Chemical or by distributors upon request.

As with all metalworking products, QUAKECOOL® 7101 LF should be stored in dry conditions and protected from extreme temperatures: 4 - 35 °C is the recommended storage temperature.

QUAKECOOL® 7101 LF is unlikely to present any significant health or safety hazard when used as recommended by Quaker. Good standards of personal and industrial hygiene are to be maintained by the user (see Material Safety Data Sheets).

OPERATIONS

Turning	●
Milling	●
Drilling	●
Deep hole drilling	●
Tapping-Threading	●
Reaming	●
Broaching	○
Sawing	●
Grinding	●
Honing-Lapping	○

MATERIALS

Cast-iron	●
Steel	●
High alloy steel	●
Stainless steel	●
Aluminium alloys	●
Aero Aluminium alloys	
Copper alloys	
Titanium	●
Carbide tool	

● Main application ○ Possible application

PROPERTIES

PROPERTY	TYPICAL VALUE	UNIT
Appearance / Colour	Clear Light Amber	[-]
Viscosity	40	[mm ² /s @ 40 °C]
Density	987	[kg/m ³ @ 15 °C]
Pour point	<0	[°C]
Appearance diluted	Opaque	[-]
pH diluted	9.3	[-]
Corrosion threshold	4	[% DIN 51360 T2]
Alkalinity factor (pH=5)	3.9	[ml 0,1N/%/ 25 ml]
Acid split factor	0.56	[ml/%]
Refractometer factor	1.3	[%/° Brix]

These characteristics are typical of current production and can't be used as a specification.

quakerchem.com | +31 297 544 644

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