

# QUAKERCOOL 7101 LF

## DESCRIPTION, OPERATION & MATERIALS

**QUAKERCOOL 7101 LF** is a biostatic high performance coolant with a medium mineral oil content. Developed for machining aluminium alloys with medium to high levels of Silicon and Copper, as well cast-iron and steel. Its lubricating performance is excellent, due to a careful blend of ester and anti-wear additive. **QUAKERCOOL 7101 LF** is ideally suited for traditional machining operations as well applications requiring a high surface.

- All machining operations on aluminium alloys and steel and cast-iron.
- Concentration range: 4-10%, depending on the difficulty of the operation.
- Waterhardness: 140-270 ppm (14-27° TH, 8-15° dH).

## APPLICATIONS

	Turning	Drilling	milling	Sawing	Grinding	Honing	Lapping	Threading	Deepholedrilling	Broaching
Steel	●	●	●	●	●			●	●	●
Stainless steel	●	●	●	●				●	●	
High alloy steel	●	●	●	●				●	●	
Titanium	●	●		●				●		
Carbide										
Cast iron						●		●	●	●
Copper alloys										
Aluminium alloys < 7% Si	●	●	●					●	●	●
Aluminium alloys > 7% Si	●	●	●					●	●	●
Plastic	●	●	●					●	●	●

The above information should only be used as a guide. In order to check the suitability for your particular application please consult a Quaker representative. The product should be used at a minimum of 4%.

## BENEFITS

- Good sump life.
- Excellent surface finish on Mapal reaming.
- Good filterability.
- Good biological and fungal stability.
- Good corrosion properties.

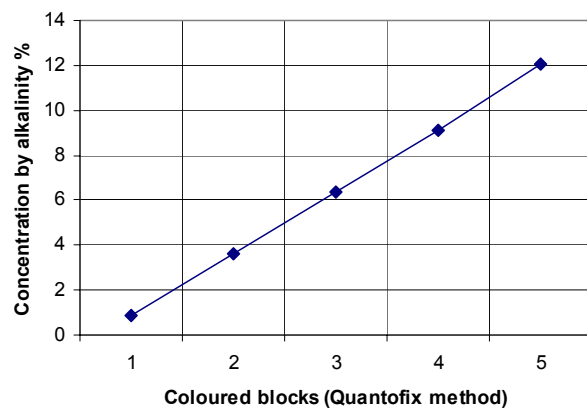
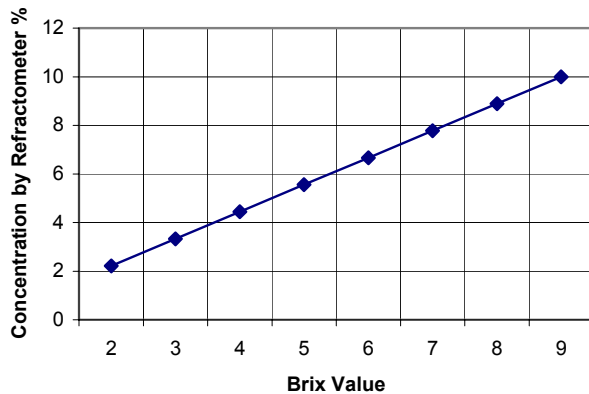
## TYPICAL PROPERTIES - CONCENTRATE

<i>Property</i>	<i>Typical Value</i>	<i>Unit</i>
Appearance	Amber	[-]
Kinematic viscosity	100	[mm <sup>2</sup> /s, 40° C]
Density	951	[kg/m <sup>3</sup> , 15° C]
Pour point	<4	[° C]
Mineral oil / Ester content	50 / 8	[% wt]

## TYPICAL PROPERTIES - EMULSION

<i>Property</i>	<i>Typical Value</i>	<i>Unit</i>
Appearance	Milky white	[-]
pH (6% in DIN water)	9.3	[-]
Corrosion threshold	4.0	[%, DIN 51360 T2]
Alkalinity (pH=5.0)	3.71	[ml 0.1 N HCl/%/25 ml]
Acid split	0.90	[ml/%]
Refractometer	1.1	[%/ °Brix

## FLUID MAINTENANCE



## STORAGE, SAFETY & DISPOSAL

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, **QUAKERCOOL 7101 LF** should be stored in dry conditions and protected from extreme temperatures: 4-35° C is the recommended storage temperature.

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

In order to protect the environment, the product used should be safely disposed by a licensed contractor. The packaging material should be handled by a recognised reconditioning firm.

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.