

QUAKERCOOL 3750

DESCRIPTION, OPERATION & MATERIALS

QUAKERCOOL 3750 is a bacteriostatic semi-synthetic fluid with a high mineral oil content. Developed for a multipurpose action in machining and grinding, it is part of the long experience of Quaker in the field of biostability. Its lubricating performances are excellent, thanks to a careful selection of the oil base. **QUAKERCOOL 3750** is well suited to traditional machining and grinding operations on cast-iron and steel.

- All machining operations on cast-iron and steel alloys.
- Waterhardness: 40-270 ppm (4-27° TH, 2-15 ° 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 2.5%.

BENEFITS

- Good sump life.
- Good anti-corrosion properties.
- Excellent wetting of particles during grinding operations.
- Good filterability.
- Excellent biological and fungal stability.

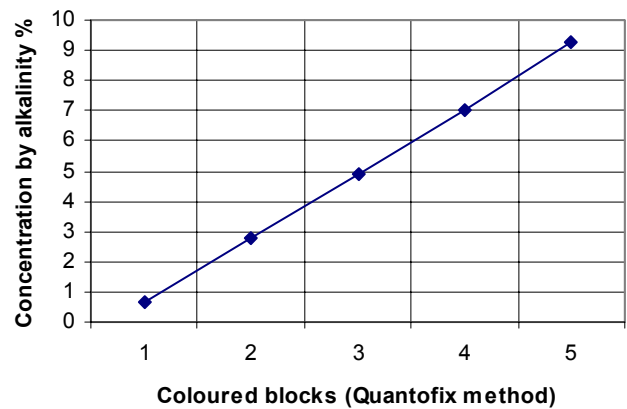
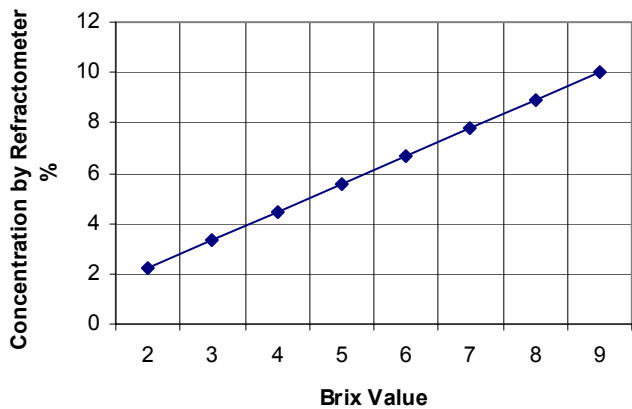
TYPICAL PROPERTIES - CONCENTRATE

<i>Property</i>	<i>Typical Value</i>	<i>Unit</i>
Appearance	Slight hazy, yellow	[-]
Kinematic viscosity	68	[mm ² /s, 40° C]
Density	993	[kg/m ³ , 15° C]
Pour point	<4	[° C]
Mineral oil / Ester content	46 / 0	[% wt]

TYPICAL PROPERTIES - EMULSION

<i>Property</i>	<i>Typical Value</i>	<i>Unit</i>
Appearance	Off-white	[-]
pH (5% in DIN water)	9.4	[-]
Corrosion threshold	2.5	[%, DIN 51360 T2]
Alkalinity (pH=5.0)	4.7	[ml 0.1 N HCl/%/25 ml]
Acid split	0.69	[ml/%]
Refractometer	1.11	[%/° 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 3750** should be stored in dry conditions and protected from extreme temperatures: 4-35° C is the recommended storage temperature.

QUAKERCOOL 3750 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.