



QUINTOLUBRIC® 814-02 LONGWALL ROOF SUPPORT

APPLICATION SHEET

BENEFITS

- » Approved by Joy Mining Machinery at 2% concentration in two classes of water:
 <125 ppm CaCO₃ and Type 18 water
- » Approved by Caterpillar in mine specific water
- » Approved by MSHA No. 30-20-5

- » Biodegradable in accordance with ISO 7827
- » Compatible with all commonly used longwall fluids for easy conversion
- » Optional dye for easy underground leak detection



APPLICATIONS

QUINTOLUBRIC® 814-02 is a high water-based (HFA) hydraulic fluid concentrate designed for use in longwall shields.

USAGE

QUINTOLUBRIC® 814-02 is delivered as a concentrate and mixed with water for use in roof supports. The product mixes easily with water and requires no agitation for dilution or storage. QUINTOLUBRIC® 814-02 is compatible with all standard dilution mixers such as Dale, Conflow, Dosatron and venturi systems. Recommended concentration is 2% by volume or as specified by the roof support manufacturer.

PROPERTIES

PROPERTY (TEST METHOD)	TYPICAL VALUES
Appearance	Translucent Amber Green Solution
Specific Gravity (ASTM D287)	1.00
Density	8.34 lbs/gal 1.00 g/ml
Flash Point (ASTM D92)	None
Freeze Point (ASTM D97)	24°F/-4.4°C
pH of 2% in Distilled Water (ASTM D70)	10.1
Viscosity @ 100°F (D445)	500 SUS / 108 cSt
TYPICAL PERFORMANCE 2% SOLUTION	
Appearance	Translucent Amber Green Solution
Rust Prevention	Passes IP 135 Steel Finger Test in Saline Water at 0.8%
Bacteria and Fungi	No Infestation Experienced During Testing
Compatibility	Stable when mixed 50/50 with Solcenic 3B





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FLUID MAINTENANCE

As a service to customers and to assure the troublefree performance of the roof support fluid, Quaker recommends a program of regular fluid analysis. Quaker will perform normal fluid analysis. Quaker will provide sample bottles with shipping material and will provide the recommended fluid analysis free of charge.

Complete details of the fluid analysis program including normal operating ranges and sample reports will be provided with the Operation Manual for the fluid.

STORAGE AND HANDLING

For cost effectiveness, Quaker recommends plastic, above ground storage tanks for bulk storage of the QUINTOLUBRIC® 814-02 concentrate. If a metal tank is used, no zinc-containing coating should be used on the inside of the tank. The tank and hatchway design should be such that ingress of water, dirt and other potential contaminates is minimized. The recommended storage temperature range is 32 - 110°F. For bulk storage of concentrate we recommend on-site concentrate storage capacity of 8,000 gallons.

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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. 4/2013