

LONGWALL FLUIDS

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 trouble-free 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 contaminants 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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