

# QUINTOLUBRIC® 814-02

## Longwall Fluid

### APPLICATIONS

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

### BENEFITS

- Approved by Joy Mining Machinery (formerly Longwall International) at 2% concentration in two classes of water: <125 ppm CaCO<sub>3</sub> and Type 18 water
- Now produced in the United States in an ISO approved facility to meet mining industry needs.
- Biodegradable in accordance with ISO 7827.
- Compatible with all commonly used longwall fluids for easy conversion.
- Contains a dye for easy underground leak detection. Dye degrades when exposed to sunlight.

### MIXING

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.

### 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.

quintolubric.com  
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### TYPICAL PROPERTIES

| PROPERTIES<br>(ASTM Test Method)       | 814-02<br>(014466)                                      |
|--|---|
| Appearance                             | Translucent Amber-Green Solution                        |
| Specific Gravity (D287)                | 1.001   |
| Density                                | 8.34 lbs/gal / 1.00 g/ml                                |
| Flash Point (D92)                      | None  |
| Freeze Point (D97)                     | 24°F/-4.4°C   |
| pH of 2% in Distilled Water (D70)      | 10.4  |
| Viscosity @ 100°F (D445)               | 500 SUS / 108 cSt                                       |
| <b>Typical Performance 2% Solution</b> |   |
| 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 Solenic 3B                 |

### 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.

