

# QUINTOLUBRIC® N 807-AL

## High Water-Based Fluid Concentrate

### APPLICATIONS

QUINTOLUBRIC® N 807-AL has been designed to operate in water hydraulic equipment and fulfills the requirements set for fire resistant hydraulic fluids of the type HFA-E (oil-in-water emulsions).

Unlike traditional high mineral oil containing HFA-E products, QUINTOLUBRIC® N 807-AL contains a low amount of mineral oil and forms a micro emulsion upon dilution in water.

In comparison to traditional high mineral oil containing HFA-E products, QUINTOLUBRIC® N 807-AL delivers improved mixing, stability, filtration and bacteria/fungi resistance properties. QUINTOLUBRIC® N 807-AL can be applied in ecologically sensitive areas since the product is well biodegradable and has low Water Endangering Class.

QUINTOLUBRIC® N 807-AL is delivered as a concentrate forming a micro-emulsion when diluted in water. QUINTOLUBRIC® N 807-AL can be applied in varying water types. The maximum recommended water hardness is 20° dH.

The concentration-in-use will depend on the application and the properties of the process (make-up) water. Because of the large number of water types available, specific recommendations on the usage of QUINTOLUBRIC® N 807-AL should be solicited from Quaker. The standard concentration range for QUINTOLUBRIC® N 807-AL is 1.5 – 3.0%.

### BENEFITS

- Approved by Landesoberbergambt (LOBA), Germany according the 7th Report of Luxembourg  
- Deutsche Bergbau Technik (DBT), Germany  
- Charbonnage de France (CFD), France
- Low aquatic toxicity  
- Water Endangering Class (WEC) of concentrate
- Biodegradability of concentrate = 80.3% according OECD 301-C
- No skin irritation for 3% emulsion
- Excellent emulsion stability

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- Excellent corrosion prevention, even at low emulsion concentration
- Effective prevention of bacteria and fungi growth
- Good filtration properties
- Proven performance in the mining industry
- Low applied costs

### TYPICAL PROPERTIES

PROPERTIES OF CONCENTRATE (Test Method)	N 807-AL (004590)
Appearance	Amber Liquid
Density at 15°C (ASTM D 1298)	0.999 g/cm <sup>3</sup>
Pour Point (ASTM D 97)	< -6°C (< 21.2°F)
Flash Point (ASTM D 92)	None
pH (ASTM D 70)	10.2
<b>Typical Performance 2% Solution</b> Synthetic Y Water (Composition according to 7th Luxembourg Report)	
Appearance	Translucent, Opaque Liquid
pH (ASTM D 70)	10.0
Emulsion Stability (DIN 51346) 25 days at 50°C	1A-1R (stable)
Foam Test (ASTM D 892) at 25°C (Sequence I) at 50°C (Sequence II) at 25°C after 50°C (Sequence III)	0-0 ml-ml 0-0 ml-ml 0-0 ml-ml
Corrosion Protection (CETOP R 48A) (ASTM D 665A) 28 days at 35°C Steel Brass Copper Aluminum Zinc	Weight change of test panel <+1 mg <-1 mg <+1 mg +1 mg +7 mg



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### COMPATIBILITY

#### Seals, Hoses and Packings

Standard seal materials like NBR 1, FPM 1 and EDPM 1 are compatible with QUINTOLUBRIC® N 807-AL emulsion, but because of the large number of material types available and variations in their application, specific recommendations should be solicited from the materials manufacturer, or from Quaker.

#### Metals

QUINTOLUBRIC® N 807-AL emulsion gives excellent corrosion protection on steel, copper, aluminium and brass and combinations of these. Corrosion protection on zinc is limited.

#### Other Fluids

QUINTOLUBRIC® N 807-AL is usually compatible with other HFA emulsions/solutions and antifreeze additives. However, we recommend a test program to be performed for every major fluid change. QUINTOLUBRIC® N 807-AL emulsion is not miscible with mineral oils, HFC and HFD type fluids.

#### Paints

Paint coatings inside the hydraulic equipment are usually not needed since the QUINTOLUBRIC® N 807-AL emulsion provides sufficient corrosion protection. If paint coatings inside the hydraulic equipment are required, please consult the paint manufacturer or Quaker for additional information, because the product may not be compatible with all types of paint.

### FLUID MAINTENANCE

It is important for correct operation of the HFA hydraulic system, that the preparation of the emulsion is done in the optimal concentration by means of a reliable and accurate dosing system and that the concentration be maintained during operation. A regular analysis (no less than twice a year) of the emulsion is recommended.

### SAFETY

Please consult the Material Safety Data Sheet (MSDS) for information on measures to be taken to ensure the protection of health and safety at the workplace. MSDS's are available directly from Quaker.

### STORAGE AND HANDLING

If the following criteria are adhered to, the product can be stored for at least six months. Recommended long-term storage temperature is 0-30°C. Keep containers/drums tightly closed when not in use, and store the containers/drums in a dry and well-ventilated area.