



## Delivering innovative solutions to industry Challenges.

### Products at a glance

QUINTOLUBRIC® 814

QUINTOLUBRIC® 818

QUINTOLUBRIC® 888

QUINTOLUBRIC® 822-450

QUINTOLUBRIC® 714-25

MineTech™ Protection Fluid

MineTech™ Synthetic Gear Oil-EP

MineTech™ Assembly Compound LW

Solutions to process problems often start in a single mine, but it takes a collaborative approach — with input from experts around the world — to reap meaningful, long-term benefits and this is especially true today because most coal mining companies operate globally. They are looking for solutions they can apply everywhere and in many different situations and conditions.

Quaker has a worldwide network of technical experts to support global customers at the local level and has used its wide network of technical sales, marketing, laboratory development and multiple manufacturing locations to bring value to the mining industry. Having many facilities near our customers is important, but one of Quaker's advantages is how all of its facilities work together to support the mines it supplies all over the world, including Australia, Bosnia, China, Czech Republic, France, Germany, Mexico, Poland, Russia, Slovenia, Slovak Republic, Spain, Turkey, and the United States.

For more than 30 years, Quaker Chemical has been a leading supplier of specialty hydraulic fluids, and the QUINTOLUBRIC® brand is recognized around the world as the name for high-quality, high performance, fire-resistant and environmentally compatible fluids. Since Quaker QUINTOLUBRIC® hydraulic fluids have been in use in mines worldwide, there has not been one incident of fluid related bacterial growth. Solenoids have remained corrosion free; filters have remained unplugged, and worker infections eliminated.

### Longwall fluids QUINTOLUBRIC® 814

High water-based (HFA) hydraulic fluid concentrate designed for use in longwall shields.

- Approved by Joy Mining Machinery
- Approved by Bucyrus (formerly DBT)
- MSHA Approved
- Fifteen years of trouble free service in Australian longwall mines
- Produced in the United States in an ISO approved facility
- 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

### QUINTOLUBRIC® 818

Fully synthetic, true solution, high water-based (HFA) hydraulic fluid concentrate for use in longwall shields.

- Approved by Bucyrus (formerly DBT)
- Produced in the United States, Europe and Australia in an ISO approved facility
- MSHA Approved
- 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





## Products Types Offered

Longwall Fluids

Fire Resistant Hydraulic Fluids

Storage Fluid

Gear Lubricants

Water Soluble Gel

### Fire resistant hydraulic fluids QUINTOLUBRIC® 888

Synthetic, organic ester fluid designed to replace anti-wear, mineral oil-based hydraulic fluid used in fire hazardous and environmentally sensitive applications without compromising overall operations.

- Factory Mutual Approved
- High ignition temperature and low heat release
- Properties that limit the spread of fire
- Excellent shear stability
- Non-toxic / non-toxic to aquatic life
- Non-irritating
- Fully biodegradable
- Simple waste treatment

### QUINTOLUBRIC® 822-450

Synthetic ester fluid designed to replace anti-wear, mineral oil-based hydraulic fluid used in fire hazardous and environmentally sensitive applications without compromising overall operations.

- Good fire-resistant properties
- Factory Mutual Approved
- MSHA Approved
- Excellent lubrication properties
- Excellent shear stability
- Compatible with most standard seal materials
- Cleanliness:
  - max. NAS 1638 Class 6 in bulk
  - max. NAS 1638 Class 7 in drums
- Low human and ecological toxicity
- Product is >90% biodegradable according to CEC
- Energy saving because of low density compared to other HFD type fluids
- Excellent cost/quality balance for selected systems

### Storage fluids MineTech™ Protection Fluid and QUINTOLUBRIC® 714-25

Long-term storage fluid that protects roof support units against freeze damage and corrosion.

- Stable solution type product
- Resists bacteria and fungus
- Excellent corrosion protection

### Gear lubricants MineTech™ Synthetic Gear Oil-EP

Developed to lubricate and withstand the extreme operation conditions experienced by heavily loaded enclosed gears, (plain or roller element).

- Synthetic base fluid: Polyalphaolefin (PAO)
- Designed for the mining industry (extreme work environment)
- Suitable for various gear units
- Superior oxidation stability
- High Viscosity Index
- Reduces input power consumption through reduced friction
- Excellent low temperature flow characteristics
- Maximum protection against wear, rust, corrosion and foaming
- Compatible with system materials

### Water soluble gel MineTech™ Assembly Compound LW

Unique product reduces the difficulty of fitting and hose assembly on longwall mining roof shields when repairs are needed quickly or during normal longwall operation.

- Compatible with longwall hydraulic fluids
- 100% water soluble
- Quick application
- Will not plug fluid filters
- Protects against corrosion

### Dust suppressant

Moisture-absorbing (hygroscopic) clear liquid that reduces the generation of airborne particulate matter from unpaved roads and allows small dust particles to combine and increase in size by absorbing moisture from the air, making them less prone to become airborne

- Can be used as a bonding agent for roads
- Foam control additive
- Settling aid
- Fully biodegradable
- Renewable resource

