



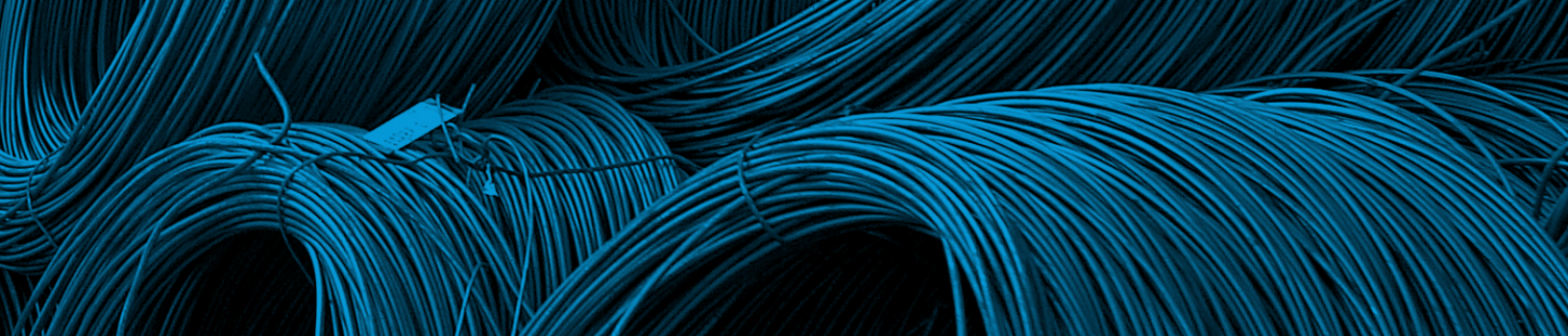
ROD & WIRE



Powering the future. Together.

Products for the Rod and Wire Industry





Copper Rod Rolling

COPPERSHIELD® Series – Synthetic Solutions

The hot rolling of copper rod is a demanding process. Quaker Houghton's novel COPPERSHIELD® series has proven performance and provides the following benefits:

- Excellent lubrication for increased roll life and productivity
- Outstanding corrosion protection leading to extended asset life
- Extremely bio-stable resulting in longer solution life and reduced coolant spend
- Excellent detergency proving reduced cost associated with mill cleaning

Copper Wire Drawing

HOUGHTO-DRAW® WD Series – Drawing Compound

Whether drawing copper rod, intermediate, multi-wire or fine wire, Quaker Houghton's HOUGHTO-DRAW® WD Series has a drawing compound with proven performance. Our versatile line of water-dispersible compounds provides excellent lubricating properties for clean, bright wire. HOUGHTO-DRAW® WD Series offer the following benefits:

- Excellent lubricity
- Superior detergency
- Cooling of dies
- Wetability
- Low foam properties
- Good fines separation
- Biostable formulations

PRODUCT	DESCRIPTION
HOUGHTO-DRAW® WD-4808 LF	Water soluble copper and aluminum wire drawing compound
HOUGHTO-DRAW® WD-4100	Water soluble copper wire drawing compound
HOUGHTO-DRAW® WD-4810	Water soluble lubricant drawing copper and tin coated copper wire
HOUGHTO-DRAW® WD-4812	Water soluble copper and aluminum wire drawing compound
HOUGHTO-DRAW® WD-4814	Copper wire drawing fluid for various operations
DRAWING COMPOUND 3501-161	A water soluble synthetic lubricant for fine copper wire drawing.

Aluminum Rod Rolling

QH EVEROLL™ Series – High Performance Emulsions

Hot rolling emulsions for aluminum rod rolling require outstanding lubrication and excellent emulsion stability. Quaker Houghton's QH EVEROLL™ emulsions provide exceptional lubrication and emulsion stability based on unique lubrication and emulsifier packages and offers the following benefits:

- Outstanding lubrication for increased roll life and productivity
- Extremely bio-stable resulting in increased emulsion life and reduced oil spend
- Excellent surface quality meaning reduced rod downgrades and scrap

Aluminum Wire Drawing

CINDOL® – Lubricants

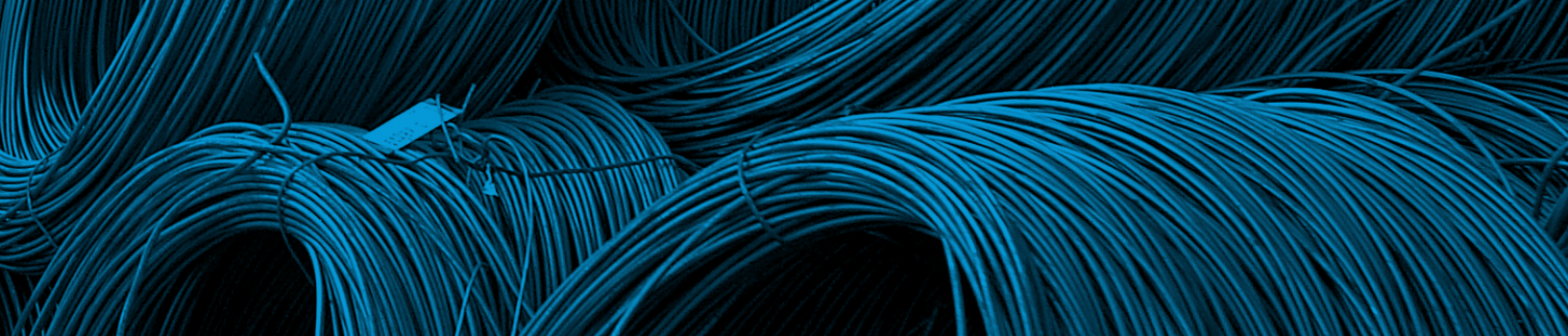
The CINDOL® line of oil lubricants is formulated with ND, a potent additive that dramatically lowers the coefficient of friction of steel-to-aluminum and aluminum-to-aluminum. It can also be used effectively on stainless steel, bronze, brass, galvanized steel, titanium and other metals. CINDOL® oils provide the following benefits:

- Superior surface finish
- Lower friction between metals
- Longer tool and die life
- Reduced wear and galling
- Decreased power requirements

Ancillary Products

Ancillary products used in wire drawing and rod rolling applications:

- Cleaners
- Fire-resistant hydraulic fluids
- Maintenance greases
- Quenchants



Steel Wire Drawing

Quaker Houghton products for steel wire drawing are designed to produce severe reductions in diameter when drawing round, carbon steel wire. The products contain high film strength agents and a unique solid film lubricant. This combination allows reduction of 45% or more and results in a bright, shiny finish on the wire.

Benefits include:

- Bright, shiny finishes
- High percentage of reductions
- Cooler die box temperatures

PRODUCT	DESCRIPTION
DRAWSOL® WDC 20	Pigmented steel wire drawing paste
DRAWING COMPOUND 2473-75-01	Mineral oil based lubricant for steel wire drawing

Equipment Solutions

Quaker Houghton carries equipment solutions to create enhanced Total Cost of Ownership savings:

- Filtration
- Onsite analytical fluid testing
- QH FLUIDCARE™ programs

Forward Together™

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