

## **Revolutionizing Metalworking Technology**

QualiChem is the fastest growing fluids manufacturer in the metalworking industry.

QualiChem offers advanced product technologies covering a wide range of metalworking applications including: cutting and grinding fluids, metal cleaners, corrosion preventatives, and metal forming fluids. In addition to high quality manufacturing, QualiChem provides complete technical, sales, and laboratory support for all of our metalworking fluids.

QualiChem has the highest performing cutting and grinding fluids on the market today, which is fueling our rapid growth. By applying the latest advances in additive technology and looking beyond those typically used in metalworking formulations, our team of chemists has developed breakthrough technology that is defining *the next generation of metalworking fluids*.

QualiChem's comprehensive lines of synthetic and semi-synthetic products provide cooling and lubrication levels to excel in virtually any cutting and grinding application. Cutting performance is achieved without the common problems of rancid odors, foam, short sump life, sticky residues and dermatitis.

## We deliver innovative chemistry to maximize productivity in the metalworking market.



## **The Next Generation of Metalworking Fluids**

#### **Defining the Leading Edge**

## QualiChem is committed to pursuing advances in fluid technology. Innovation is the key.

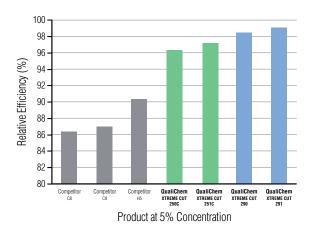
Our chemists are erasing old paradigms and providing innovative chemistry to deliver tomorrow's metalworking fluid technology today. QualiChem has achieved major advances in product technology with our XTREME brand of metalworking fluids.

Our XTREME metalworking fluids perform the most difficult drilling, reaming, boring, tapping, and threading operations on a wide variety of metals, including automotive and aerospace aluminums, stainless steels, and exotic alloys. Performance at the point of cut demonstrated by this XTREME technology was previously unheard of with traditional metalworking fluids. QualiChem customers are now enjoying double digit increases in tool life and mirror finishes utilizing the XTREME brand of metalworking fluids.

One of the most successful tests to document improvements in machining performance is the Microtap comparison. The following chart is an example of one comparative study done during the product development process for XTREME CUT 291

#### **Machining Performance**

An independent lab completed this Microtap test. The metal evaluated was 6061 Aluminum utilizing an M6x1 HSS forming tap run at 660 RPM.



We continue to break new ground with advanced chemistry to help you keep pace with machine tool improvements and part design requirements. You can count on our fluids to provide:

- Increased tool life
- Superior surface finishes
- Faster cycle times
- Reduced coolant usage
- Extended sump life
- Improved health and safety characteristics
- Exceptional fluid aesthetics (excellent cleanliness, low odor & low residue)
- Improved biological and fungal resistance

#### **Meeting Industry Demands**

### QualiChem's product development is driven by performance and safety.

Our environmentally friendly, high-performance fluids deliver productivity gains and bottom line manufacturing savings to you. QualiChem fluids are designed to address the latest Environmental, Health & Safety issues to ensure the highest level of safety for users, thereby reducing your liability.

QualiChem's experienced development team understands the intricacies of today's modern manufacturing methods and machine tools. Higher speeds and feeds require fluids to deliver greater performance in tougher environments. Our cutting and grinding fluids meet increasing demands at the point of cut while maintaining the aesthetic properties required to be operator friendly and long lasting in the sump.

## **The QualiChem Advantage**

QualiChem provides
customized laboratory
support services to
help you maintain your
fluids, investigate solutions
to complex issues and
increase product
performance

#### Securing Your Future with our Expertise

The QualiChem team of metalworking fluid experts has the manufacturing knowledge and industry experience to recommend the best QualiChem product to maximize performance and cost effectiveness for any cutting and grinding process. Our engineering expertise will effectively address all your specific fluid requirements and help you improve the performance of your most challenging applications.

#### **Supplying the Right Product for the Right Application**

Whether you are a job shop operating small CNC machines or a manufacturer with large central systems, QualiChem has the ideal cutting and grinding fluid to get the job done.

Selecting the right cutting and grinding fluid is the first step. With an extensive line of cutting and grinding fluids, there is no question QualiChem has a product that fits your application. A QualiChem expert will work with you to identify the best product for your application to ensure product compatibility and cost efficiency in your specific operating conditions. This may be achieved by using a proven product from one of the QualiChem product lines, or a custom formulated product for your specific application.

QualiChem also formulates fluids for unique applications, such as magnesium machining and carbide grinding, and for specific industries, such as aerospace, tube mills, bearing and automotive.

#### **Protecting Your Investment**

Proper fluid management is critical to protect your fluid investment. Lack of control increases usage rates, disposal costs, labor and downtime. QualiChem offers laboratory services to monitor systems and ensure optimal performance.

#### Analytical Trend Analysis (ATA)

Routine samples are pulled on a predetermined schedule and sent to QualiChem. QualiChem runs a battery of tests and documents the results. ATA reports generate trend analysis to ensure fluids run within normal operating parameters. With the scrutiny provided by an ATA, unplanned production losses and system pump outs are minimized.

#### Laboratory Service Request (LSR)

Non-routine samples are analyzed at the QualiChem lab to assist in troubleshooting or to determine the right QualiChem product for your application.

We offer comprehensive technical support for our product lines with fluid experts, either on-site with service engineers or from to 100 to 100

# The QualiChem Family of Metalworking Fluids

#### **WATER DILUTABLE CUTTING & GRINDING FLUIDS**

XTREME COOL – Premium Solution Synthetics

XTREME CUT – Premium Semi-Synthetics

 $\chi_{ extsf{TREME GRIND}}$  – Premium Grinding Synthetics

**EQ0-PURE** – Vegetable Derived Microemulsions

**Q-COOL** – Economical Synthetics

Q-CUT – Economical Semi-Synthetics

Q-MAG – Magnesium Machining Fluids

Q-SOL – Soluble Oils

**CARB GRIND** – Carbide Grinding Synthetics

#### STRAIGHT OILS

 $\chi_{\mathsf{TREME\ DRILL}}$  – Premium Gun Drilling Oils

 $\chi$ TREME CUT – Premium Cutting Oils

**EQ0-GRIND** – Premium Environmentally Friendly Grinding Oils

**EQO-HONE** – Premium Environmentally Friendly Honing Oils

**EQO-MAX** – Premium Environmentally Friendly Cutting Oils

**QuickTap** – Premium Tapping Fluid

Q-BROACH - Broaching Oils

Q-HONE – Honing Oils

Q-LAP - Lapping Oils

Q-MIST – Spray Mist Lubricants

MET-DRILL - Gun Drilling Oils

MET-GRIND - Grinding Oils

MET-CUT - Cutting Oils

**QUICK SLIDE** - Slideway Lubricants

#### **METAL CLEANERS**

**BIO SOLV** – Environmentally Friendly Solvent Cleaners

Q-KLEEN - Acid Cleaners

MET-KLEEN - Alkaline (Spray, Soak Tank, Emulsion) Cleaners

**ULTRA SOLV** – Solvent Cleaners

We are committed to providing cutting-edge technology to maximize your productivity and reduce your manufacturing costs.

#### **CORROSION PREVENTIVES**

Q-GUARD (Water Based)

Q-KOAT (Oil Based)

Q-SHIELD (Solvent Based)

#### **METAL FORMING FLUIDS**

Q-TUBE (Tube Mill Fluids)

AQUA FORM (Water Based)

MET-FORM (Oil Based)

**SYN-FORM** (Synthetic Based)

## METALWORKING ADDITIVES & SPECIALTY FLUIDS

Antifoam & De-foam Agents

Biocides/Fungicides

**Corrosion Protection Additives** 

**De-Scaling Agents** 

Floor & Maintenance Cleaners

pH Adjusters

**Lubricity Enhancers** 

Water Softening





#### QualiChem Corporate Headquarters, Manufacturing Plant and Laboratories

All metalworking products sold by QualiChem are manufactured at our facility in Salem, VA. Local stocking and delivery are provided through our premier distribution network.

Distributor Label	



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AN ISO 9001:2008 COMPANY



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