

THAT CAN REALLY SINK YOU.

DIRECT FLUID COSTS

There's a lot more below the surface that can directly affect the overall cost of Metalworking Fluids

Machine
Downtime

Tool Costs

Product
Availability

Maintenance
Labor

Rework & Rejects

Product
Disposal

Waste
Treatment

These are a few of the factors to consider when selecting any metalworking coolant or lubricant: product life, auxiliary costs to manage and replace the product, the ability to recycle and filter the products, and the safety of workers using the product.

A Global Presence.

Quaker has staff on the ground in every region of the world. Our infrastructure of sales, service, research and development, manufacturing and operations facilities and systems are all designed to support our customers on a local basis - whether the customer is in one location or at facilities around the world.

Quaker Headquarters

North America
Quaker Chemical Corporation
One Quaker Park
901 Hector Street
Conshohocken, PA 19428-0809
+1-610-832-4000

Europe
Quaker Chemical B.V.
Industrieweg 1-13
1422 AH, Uithoorn
The Netherlands
+31-297-544644

South America
Quaker Chemical Indústria e Comércio S.A.
Avenida Brasil, no 44.178
Distrito Industrial de Campo Grande
23.078-000-Rio de Janeiro
Brazil
+55-21-3305-1800

Asia Pacific
Quaker Chemical (China) Co., Ltd.
No. 619 TianYing Road
Qingpu Industrial Park
Shanghai 201700
People's Republic of China
+86-21-3920-1666

In Metalworking Fluids it's what you don't see ...



www.quakerchem.com



Quaker will help you navigate around treacherous indirect costs.

We'll steer a course to a lower total cost for your metalworking operations.

Quaker can be a valuable part of your effort to reduce your costs and improve your operations by providing process expertise and customized support services and high performing fluids around the world. We will supply you with the appropriate local support to fit your needs.

We help provide you with the services that assure optimal use of each Quaker product. By steering Quaker's worldwide research, experience and expertise directly to your firm, we will help you implement processes that provide a maximum return in productivity of both employees and machines.

We will support you with one of several local resources: **Quaker Chemical Management Services' (CMS)** experts working full time at your plant; one of our local **Value Added Representatives (VARs)** who are partnered with Quaker to support you; and **Quaker's field staff** of metalworking process engineers. This field force of over 300 people is available to support you today to meet your metalworking needs.

We are ready to point you toward achieving the lowest possible cost of ownership, outstanding product performance, low bottom line cost, and maximum environmental care.

Key Product Attributes

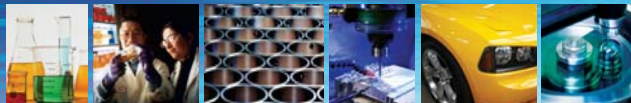
- Performance - stability, versatility and safety
- Lower total cost - reduced usage and downtime
- Safety - biodegradable, easy waste treatment

Product Benefits

- Increased production rates
- Better finish quality
- Longer tool life
- Improved health and hygiene
- Less waste
- Longer sump life

Safe Handling

- Biostable to reduce bacteria and fungal growth
- Minimal requirements for additions of biocides
- Formulated to avoid dermatitis and misting



Quaker engineered products help improve all these operations:

Aerospace	Automotive	Bearing	Heavy Equipment	Tube & Pipe	Steel Making	Mining
• Machining	• Machining	• Grinding	• Grinding	• Machining	• Cold Rolling	• Hydraulics
• Grinding	• Grinding	• Machining	• Machining	• Rolling & Forming	• Hot Rolling	• Lubrication
• Cleaning	• Stamping	• Anti-corrosion	• Grinding	• Cleaning	• Hydraulic	
• Anti-corrosion	• Cleaning	Cans	• Cleaning	• Coatings	• Anti-corrosion	
• Hydraulic	• Anti-corrosion	• Forming	• Anti-corrosion	• Anti-corrosion		
• Chemical Milling		• Drawing				
		• Cleaning				
		• Anti-corrosion				

Select the Quaker products that might apply to your own operations.

COOLANTS	TYPE	APPLICATIONS
QUAKERAL®	High Performance Micro-Emulsion	Cast aluminum machining (Mapal reaming), steel machining
QUAKERCOOL®	Semi-Synthetic	General purpose machining and grinding of cast iron and steel
QUAKERCOOL®	Soluble Oil	Top of the line multi-purpose machining and grinding
QUAKERCOOL®	Synthetic	High lubricity solution synthetic; good for multi-purpose machining
QUAKERCUT®	Neat Oil	CBN grinding replacing chlorinated oils
CLEANERS		
QUAKERCLEAN®	Cleaner/ Rust Preventive	Light, moderate, heavy soils (temperature range 70-180°F.) Short term corrosion protection
QUAKER FORMULA™	Maintenance Cleaner	Floor, machine, sump, and tool and die cleaner
RUST PREVENTIVE		
FERROCOTE®	Oil/Solvent	Multi-year indoor protection via thin film; safe for all metals
FERROCOTE®	Synthetic	Multi-month indoor corrosion protection providing an imperceptible, paintable film
FERROCOTE®	Water soluble	Multi-month indoor corrosion protection
HYDRAULIC FLUID		
QUINTOLUBRIC®	Synthetic HFD	Fire resistant for high temperature applications
LUBRICANT		
PROTECH™	Synthetic	Maintenance lubricants
COATING		
QUAKERCOAT®		Pipe and tube coating

Quaker delivers everywhere the most effective products and services, for the lowest bottom-line cost, with the greatest care.

Every day we help you make progress towards your goals - for quality, performance, and safety. We do it by drawing on nearly 100 years of experience, by bringing the best of our expertise from all around the world, by developing advantaged products and services, and by maintaining concern for the environment.

To learn more about Quaker, visit www.quakerchem.com

