Q8Oils Metalworking

Introductions, Products and Services.

WWW.Q8OILS.COM

Optimise your performance with Q8Oils metalworking fluids.

THE Q8OILS BRAND

Our metalworking fluids are the result of more than 120 years of product development and application experience. Our chemists and product engineers take a unique, innovative and progressive approach to developing different grades for different applications. We develop smart products that extend tool life and significantly reduce operating costs, while staying a step ahead of the new demands arising from higher fluid pressures, faster cutting speeds, new materials and tool technologies.

As well as performance requirements, we recognise our customers' commercial needs. By offering a range of fluids from general purpose through to extreme performance products; we can help you balance criteria such as surface finish, severity of the operation, working environment and productivity, against cost. Metalworking fluids have been developed to perform to the highest standards demanded in todays modern manufacturing climate.
Our latest formulation ensures tooling performance is maximised and machine tools are protected.

Fluid stability and cleanliness is assured in both hard and soft waters and our products are highly resistant to microbiological contamination (bacteria & fungi) leading to long term sump life delivering value for our customers.

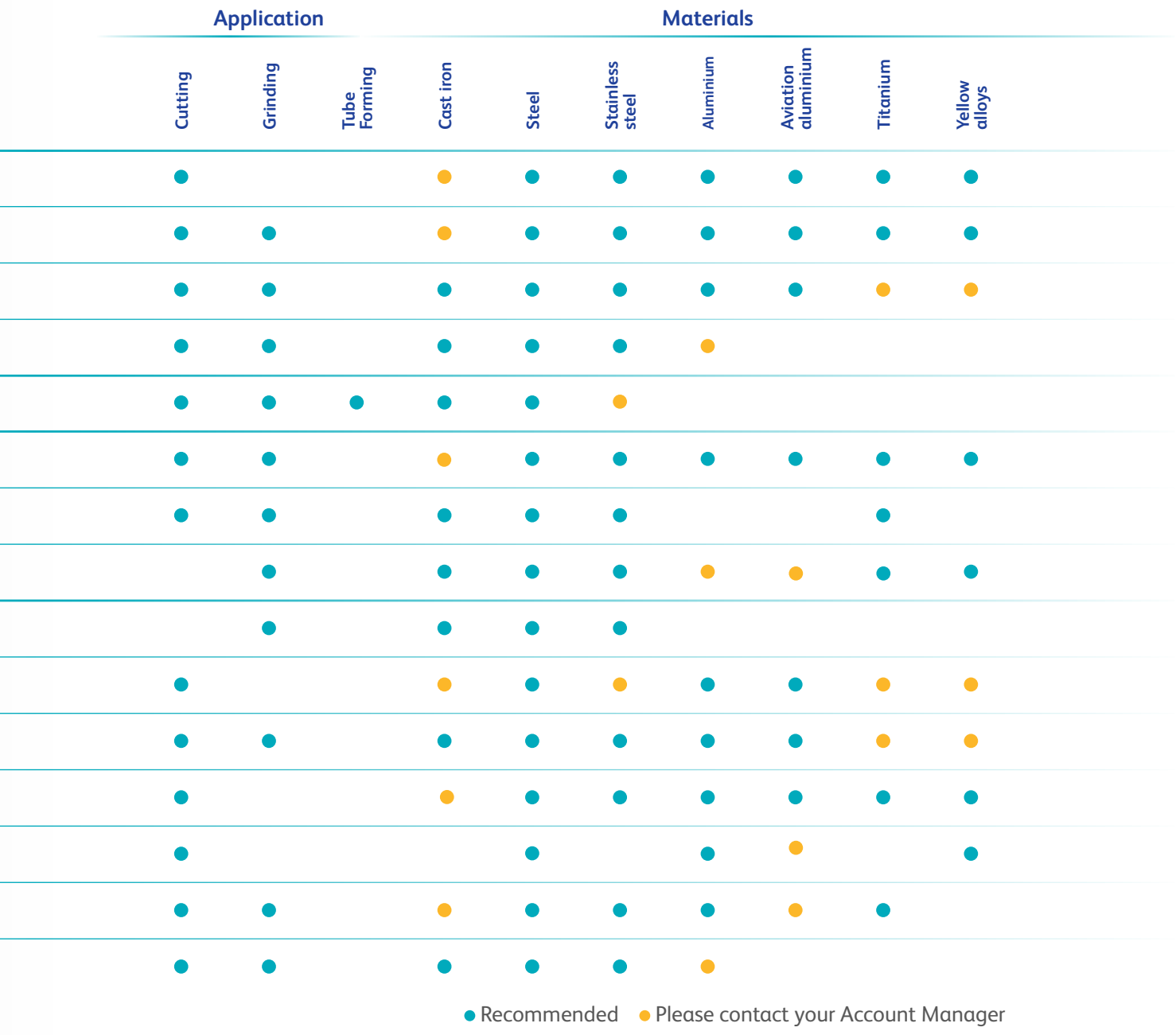
The product families in the Q8Oils Metalworking removal portfolio are:

- **Q8 Brunel** is a water soluble fluid and the flagship range for superior performance - boron, chlorine, formaldehyde and secondary amine free.

- **Q8 Bach** is a high performance range of neat cutting and grinding fluids covering all types of applications and materials.

Water soluble core range

	Emulsion	Base type	Refractor factor	5% pH
Q8 Brunel XF 776	*fine milky*	*natural gas*	*1*	*9.5*
Q8 Brunel XF 753	*fine milky*	*natural gas*	*1,2*	*9,5*
Q8 Brunel XF 741	*semi-translucent*	*natural gas*	*1,7*	*9,6*
Q8 Brunel XF 732	*semi-translucent*	*natural gas*	*1,7*	*9,7*
Q8 Brunel XF 711	*translucent*	*natural gas*	*2,4*	*9,6*
Q8 Brunel XF 662	*transparent*	*synthetic polymer*	*1,3*	*8,5*
Q8 Brunel XF 530	*transparent*	*synthetic*	*1,5*	*9,6*
Q8 Brunel XF 527	*transparent*	*synthetic*	*1,4*	*9,0*
Q8 Brunel XF 512	*transparent*	*synthetic*	*2,0*	*9,5*
Q8 Brunel XF 322	*milky*	*mineral*	*1,5*	*9,4*
Q8 Brunel XF 355	*semi-translucent*	*mineral*	*1,1*	*9,4*
Q8 Brunel XF 343	*translucent*	*mineral*	*1,2*	*9,0*
Q8 Brunel XF 277	*semi-translucent*	*mineral*	*1,0*	*8,6*
Q8 Brunel XF 263	*semi-translucent*	*mineral*	*1,2*	*9,5*
Q8 Brunel XF 132	*translucent*	*mineral*	*1,8*	*9,4*


Application
Materials
Cutting
Grinding
Tube Forming
Cast iron
Steel
Stainless steel
Aluminium
Aviation aluminium
Titanium
Yellow alloys
Recommended
Please contact your Account Manager

Neat oils product range

	Viscosity cSt at 40 °C	4-ball welding (kg)	Copper corrosion	Flash Point	Chlorine
Q8 Bach XNL 22	22	140	1a	205	Free
Q8 Bach XNF 6	6	500	1a	130	Free
Q8 Bach XNF 10	10	500	1a	130	Free
Q8 Bach XNF 15	15	520	1a	185	Free
Q8 Bach XNF 28	28	520	1a	195	Free
Q8 Bach XNF 36	36	520	1a	200	Free
Q8 Bach XAF 15	15	520	4	190	Free
Q8 Bach XAF 22	23	520	4	210	Free
Q8 Bach XAS 42	41	>800	4	195	Free
Q8 Bach 7006	6	200	1a	170	Free
Q8 Bach 7012	12	660	1a	195	Free
Q8 Bach 7022	22	580	1a	230	Free
Q8 Bach 7032	32	520	1a	200	Free
Q8 Bach 7510	9	>800	4	175	Free
Q8 Bach 7515	16	>800	4	195	Free
Q8 Bach 7520	23	>800	4	200	Free
Q8 Bach 7530	33	>800	4	200	Free
Q8 Bach XNRG 6	6	420	1a	190	Free
Q8 Bach XNRG 12	12	340	1a	200	Free
Q8 Bach XNRG 15	15	>800	1a	220	Free
Q8 Bach XNRG 25	23	440	1a	205	Free
Q8 Bach XNRG 32	32	380	1a	240	Free
Q8 Bach XNRG 44	44	260	1a	300	Free
Q8 Bach MQL 20	18,5	140	1a	165	Free

Application							Materials				
General Machining	Deep Hole Drilling	Broaching	Gear Shaping / Cutting	Honing	Thread Rolling	Grinding	Cast iron	Carbon Steel	Yellow alloys	Aluminium	Copper Alloys
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● Recommended ● Please contact your Account Manager

Excellent performance and environmental profile

Q8 Bach neat cutting and grinding fluids ensure extremely high performance and cover all types of machining operations. This versatile range offers a variety of different viscosities and base fluids, ensuring maximum environmental performance.

A COMPREHENSIVE RANGE FOR ALL TYPES OF MACHINING

The **Q8 Bach 7000 series** is formulated with bases derived synthetically from natural gas.

In addition to their extremely high purity, these bases deliver incredible properties in terms of stability compared to traditional petroleum-derived base oils. The main strengths are: they are free of sulphur, nitrogen and aromatic compounds, they are colourless and odourless and they are characterised by a high viscosity index, excellent oxidation stability, a very high flash point and very low volatility. The Q8 Bach XNRG series is formulated with synthetic esters that are fully biodegradable and do not generate mists, ensuring the working environment remains a healthy one.

These bases have a number of strengths: they are free of sulphur, nitrogen and aromatics, they are colourless and odourless and they are characterised by a high viscosity index, excellent oxidation stability, a very high flash point and very low volatility.

- **Colourless and odourless**
- **Contains no sulphur, nitrogen, aromatic compounds, PAHs or BaPs**
- **Very narrow molecule distribution**
- **Special anti-wear additive supplementation**
- **High oxidation stability**
- **High flash point and low volatility**

Outstanding operational performance

Thanks to an innovative formulation, **Q8 Brunel XF 700 series** water soluble coolants are extremely resistant to bacterial infection and ensure a longer service life than conventional fluids, thereby ensuring a significant reduction in costs and waste.

NATURAL GAS-DERIVED BASE

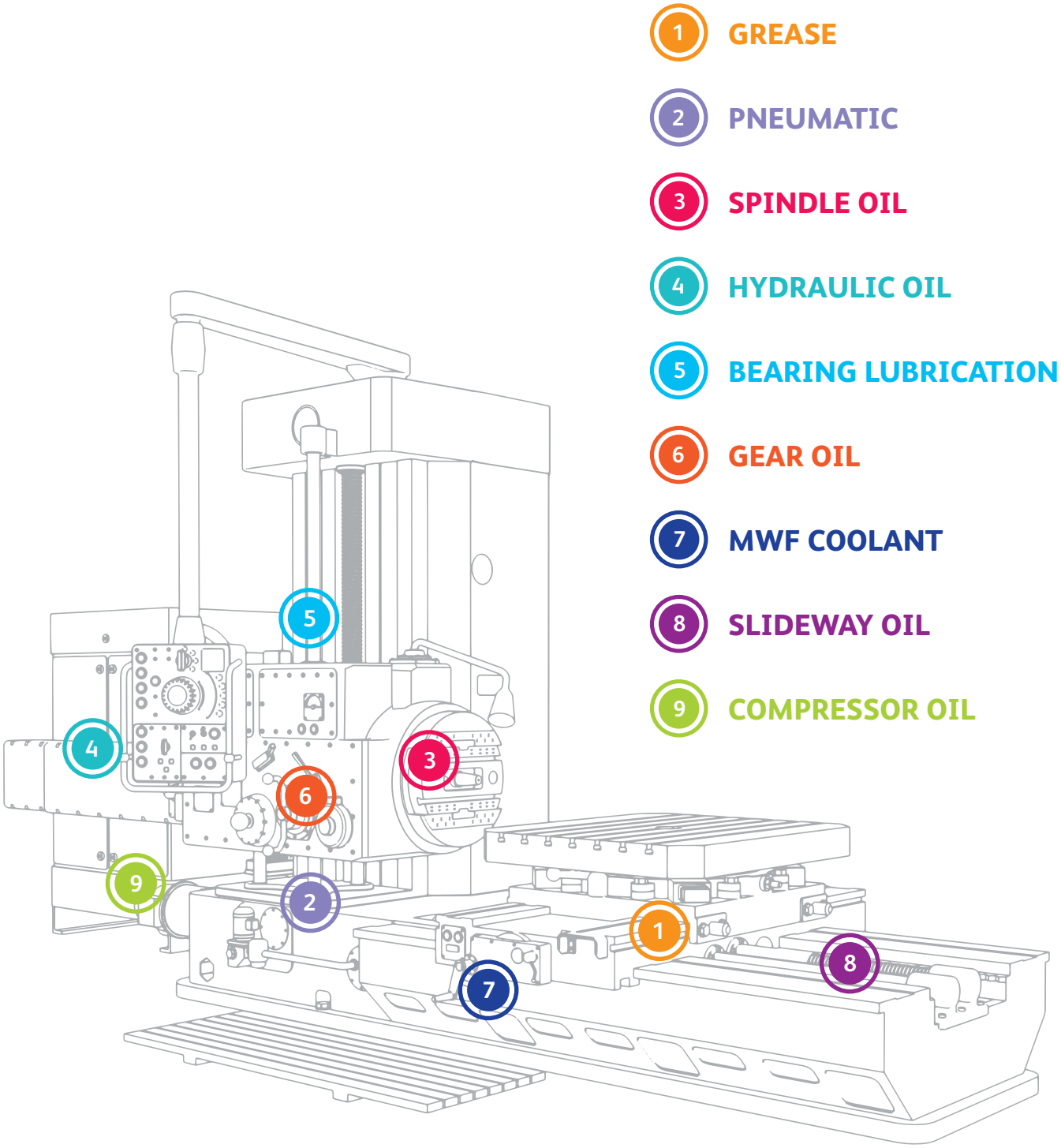
The **Q8 Brunel XF 700 series** was developed with bases derived synthetically from natural gas. The unique nature of the base, in addition to its extremely high purity, gives it incredible stability properties compared to traditional petroleum-derived base oils.

These bases have a number of strengths: they are free of sulphur, nitrogen and aromatic compounds, they are colourless and odourless and they are characterised by a high viscosity index, excellent oxidation stability, a very high flash point and very low volatility.

This technology represents a further development achieved by our laboratory, which is constantly working on new, cutting-edge formulations to guarantee customers products with increasingly sustainable profiles, without sacrificing ultra-high performance.

- **Strong health and safety profile**
- **Free of derivatives of boron and any biocide**
- **Excellent corrosion protection**
- **Good wetting and cleaning properties**
- **Improved productivity**
- **Increased tool life**

Industrial lubricants



Metal manufacturing solutions

Our metalworking fluids are the result of more than 35 years of product development and application experience. We create smart products that extend tool life and reduce operating costs, while staying a step ahead of the increasing demands arising from increased operating pressures, faster cutting speeds, new materials, advanced tool technologies and future legislation.

METALWORKING FLUIDS

- Technologically advanced soluble and neat products
- Increase performance and reduce operating costs
- Advanced safety profile and fully compliant with the latest legislation

WIRE & TUBE DRAWING

- Lubricants for all applications such as bar, rod, wire, tube, strip and profiles
- Balanced lubrication and exceptional cleanliness for optimum performance
- Long life products and excellent surface finishes

ANTI CORROSION FLUIDS

- High-performing corrosion protection fluids for ferrous and non-ferrous metals
- Easy to apply by brushing or spraying
- Excellent water separation when applied by immersion

FORMING OILS

- High-performance products for a multitude of metal forming processes
- Neat and soluble product ranges
- Minimum quantity lubrication (MQL) and vanishing oils

QUENCHING OILS

- Advanced quenching fluids
- Suitable for a wide range of quenching applications
- High oxidation stability and long lasting quenching performance

COLD ROLLING OILS

- Technologically advanced products suitable for all types of mills
- Reduced VOC emission and higher flashpoints
- High-quality surface finishes

GREASES

- High-performing range of products for various applications
- Designed for ease of application
- Able to operate in harsh environments

HYDRAULIC OILS

- Highly efficient power transfer and pressure resistant
- High and low temperature resistant
- Prevent wear

SLIDEWAY OIL

- Smooth and controlled movement of machine components without friction or wear
- Superior lubrication
- Rust protection

Are you working safely with MWF's ?

Choosing the right product with the right balance of safety & performance is an important step in improving and ensuring the protection of operators.

It is also important to recognise that once in use; the composition of MWF will change.

This often results in potential hazards to the skin, eyes and more critically to the airways and lungs.

The control of Substances Hazardous to Health Regulations (COSHH 2002) is enforced by law and requires all work environments to demonstrate adequate control to exposure of substances including MWF.

ENSURING THE ADEQUATE CONTROL OF EXPOSURE CAN BE ACHIEVED BY;

- Reducing Exposure to as low as is reasonably practical
- Selecting the most appropriate product
- Ensuring & demonstrating adequate local exhaust ventilation (LEV)
- Conducting and recording a fluid monitoring programme

THE HSE INSPECTION PROGRAMME

In 2016 the HSE announced its work plan for a proactive inspection programme for workers who may be at risk of exposure to asthmagens and/or carcinogens generated during the production process. One particular focus area is in the use of metalworking fluids (MWFs').

The HSE has identified a potential risk of ill health for operators exposed to oil & MWF mist leading to respiratory diseases such as COPD (chronic obstructive pulmonary disease) and EAA (extrinsic allergic alveolitis), also known as hypersensitivity pneumonitis.

Mist is generated from both neat & soluble metalworking fluids during processes and employers have a duty of care to ensure that adequate measures are taken to reduce the level of operator exposure to mist.

The purpose of the inspection programme is to ensure that the risks are managed.

THE PAH

Polycyclic Aromatic Hydrocarbons (PAHs) are a major cause of serious diseases related to the use of certain lubricants. The PAH threshold is now regularly measured and monitored by occupational health organizations. Using Q8 BACH 7000 Series, Q8 BACH XNRG Series, and BRUNEL XF 700 Series lubricants ensures a high HSE profile as they are completely free of PAHs.

HEALTH AND SAFETY ASSISTANCE

Employers are required by law to take precautions under The Control of Substances Hazardous to Health Regulations (COSHH) 2002, including keeping records of fluid monitoring and employee health.

TO REDUCE RISK, EMPLOYERS SHOULD:

- Choose the right product for the job
- Assess risks and take steps to minimise exposure
- Keep an eye on fluid conditions and maintain good ventilation
- Make sure workers are trained and have the right protective gear
- Store fluids safely and keep work areas clean

HOW Q8OILS HELPS:

As a member of the UKLA MWF Guidance Advisory Panel, we:

- Offer expert advice on choosing the best metalworking fluid
- Help ensure you're meeting local regulations
- Support you with monitoring fluid conditions and solving any problems

Q80ils is your partner in creating a safe and productive workplace.

"Any company that currently uses metalworking fluids needs to be aware of the health, safety and environmental aspects of these fluids. Of premium importance is the protection of the workforce during use all the way through to the protection of the environment following disposal; it is important to be continually aware of best practices that should be used to control these fluids. That's where Q8Oils comes in, using our premium high performance water soluble metalworking fluids or our superior neat cutting oil range aligned with dedicated workforce training or our bespoke QCare Fluid Management offering, we can guarantee to cover these bases whilst also improving surface finish, extending your tool life, protecting your machines, improving machine uptime and of course reducing your costs".

MATTHEW BARTLE

QCare™

Q8Oils

Next-gen reporting for the industry
Complete reporting without compromise
Intuitive reporting; optimum performance

QCARE FROM Q8OILS

Developed by Q8Oils, the QCare platform brings a bespoke, intelligent, and tailored solution to support Q8Oils customers and machinery when dealing with metalworking fluid operations.

The highly adaptable system allows users to monitor every aspect of operations, giving them a way to increase performance and save on costs.

INTELLIGENT ASSET MANAGEMENT

The system will manage the lubrication and coolant of any given machine so that it remains working optimally for longer. Analytics results from each machine are automatically recorded and displayed for users. By giving you this overview QCare enables you to see the coolant status at any time. With this information you can then see trends in the data and use that information to generate reports instantly.

Streamline your metalworking operations

Significantly reduce operational costs

Increase tool life

QCARE'S CAPABILITIES

The beauty of QCare is that is allows you to make informed decisions about your production machines with the utmost confidence. The intuitive system enables the quick and easy creation of trend reports and useful analytics.

The portal's key features include:

- **Compliance**
  The program makes sure all fluid operations meet necessary regulations.
- **Efficiency**
  QCare is designed to streamline processes.
- **Cost analysis**
  Generated reports will enable you to manage and reduce operational costs.

Improve production rates

Reduce coolant usage

Improve operator acceptability

BENEFITS OF QCARE'S CLIENT PORTAL

- **Complete Control:** Use QCare to manage metalworking fluids more efficiently than ever before. It can increase fluid lifespan and reduce waste disposal, helping to lower your environmental impact.
- **Enhanced Productivity:** Due to the optimisation settings in the program, you'll discover productivity is boosted and even the quality and lifespan of your tools is enhanced. This is due to the reduction in the need for machine maintenance and fully optimised fluid usage.
- **User-friendly interface:** Designed with operators in mind, the interface is intuitive with a built-in UX created specifically for use in workshops.
- **Problem Solving:** The incredibly detailed reports allow you to spot problems before they become problems at all! A simple traffic light system gives you the ability to identify machine issues at a glance.
- **Detailed Reports:** The program generates detailed reports on any machine with only a few button presses.

Equipment

Emulsion Preparation – **Manual Mixing Systems**

DESCRIPTION

Waterjet-powered metering pump for precise dispensing of water-soluble metalworking fluids and mixing with water.

- Special design reduces emulsion formation and backflow.
- Patented mixing chamber keeps chemicals away from the main piston, extending dispenser life.
- Ensures accurate dosing despite pressure or flow changes.

Tramp Oil Seperator – **BOS-M300**

DESCRIPTION

Wherever you have a foreign oil problem, this is the ideal solution. This uniquely designed separator removes foreign oil from the emulsion tank significantly extending the service life of the process medium.

- 99.9% effective foreign oil separation
- Reduces disposal costs
- Compact design with high mobility

Regeneration – **Oil Separator Skimmer**

DESCRIPTION

Designed to separate oils and grease from the surface of metalworking cooling fluids, the skimmer is equipped with a magnetic clamp, allowing it to be positioned in tanks containing water solutions where oil and greases need to be removed.

- The individual parts of the device are made of anti-corrosion and oil-resistant materials
- Height-adjustable magnetic holder
- The device is powered by a safety voltage source

Automatic mixer - **Zatrix® Series A**

DESCRIPTION

Dosing emulsion to the machine with a 0.1 % accuracy, the Zatrix A series is the model in efficiency for improving work on all connected processing machines.

- Up to 256 dispensers can be connected to one network
- Reduces concentrate and water consumption
- Generates complex consumption reports

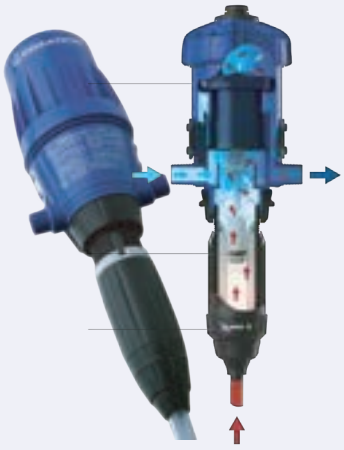
Refractometer - **VWR**

DESCRIPTION

Accurately measure the refractive index of fluid samples and determine the concentration of your metalworking fluids.

- Has Automatic Temperature Compensation (ATC) from 10 – 30 degrees
- Measures up to 20˚C ATC reference temperature
- Highly accurate readings in seconds

Dosatron - **D3 RE10 V-VF**



DESCRIPTION

Innovatively designed, the Dosatron is installed directly in the water supply line and uses the flow of water as a power source. The required percentage of concentrate is mixed inside the device before entering the system.

- Manually adjust the injection rate
- Non-electric; uses water and pressure to operate
- Provides continuous proportional injection of liquid

About Q8Oils

BLENDING YEARS OF HERITAGE WITH CUTTING-EDGE INNOVATION.

We develop, blend and deliver a comprehensive portfolio of more than 1,000 technology enhanced lubricants to suit every application, from the smallest engine to the largest machine.

Based on extensive R&D activities in our European laboratories, we manufacture an extensive range of oils in our own blending plants. We use high-quality base oils and the latest technological innovation to guarantee products of the highest quality, approved by all major OEMs.

EASY TO DO BUSINESS WITH Q8OILS

Customers from more than 100+ countries worldwide choose Q8Oils for the quality of our products and because it is easy to do business with us. We offer a single supply solution for many applications across the automotive, energy, metalworking and general industry sectors.

Thanks to our strong customer centric approach based on product and service innovation, technical expertise and support, Q8Oils is the top choice lubricant supplier for market leading companies internationally.

PART OF A STRONG GROUP

Q8Oils is a subsidiary of Kuwait Petroleum Corporation (KPC), which is ranked as one of the world's top ten energy conglomerates. KPC helps meet the world's vital oil and gas needs via diverse business activities which span all aspects of the hydrocarbon industry, from onshore and offshore exploration, to production and refining, petrochemicals, marine transportation and retailing.

مؤسسة البترول الكويتية
Kuwait Petroleum Corporation

Our mission is to develop products that exceed the highest performance requirements, fulfil customer needs and meet our responsibility to protect the environment.

Own Research & Development

QUALITY AND INNOVATION HAVE ALWAYS BEEN AT THE HEART OF Q8OILS' BUSINESS.

We invest strongly in technical research and product development.

Through our research & development programme we continuously improve existing products and develop innovative new lubricants to meet specific customer requirements.

Many of the additives we use in our lubricants are the result of our own formulations. This enables us to offer custom-made solutions for every challenge with outstanding product quality and performance.

Our R&D team also enhances production, product application and quality control by supporting customers with important information on safety, security, health and environmental issues.

KEY FACTS

- 50 years' experience of petroleum research & development
- 40+ scientists and support staff
- ISO 9001, OHSAS 18001, ISO 14001 certified
- 50,000 samples tested and 350,000 analyses every year

WHAT WE DO

- Consultancy services
- Product development and services
- Training
- Laboratory and engine testing

Committed to Quality and Sustainability

Central to our program is a dedicated commitment to enhance industrial processes through a comprehensive and sustainable approach to fluid management.

FLUID MANAGEMENT SERVICES FOR SUSTAINABLE MANUFACTURING

Leveraging our products, services, and technology, we strive to deliver multiple operational advantages, encapsulated in terms of cost reduction, process reliability, and the quality of operations.

In our fluid management approach, we offer cutting-edge fluid and solutions aligned with green manufacturing commitments, integrating energy-efficient technologies to minimize the carbon footprint.

Our solution optimizes resource usage through advanced monitoring, control systems, and a digital platform for real-time data and transparent reporting.

Innovative equipment enhances operational efficiency, aligning with sustainability objectives.

Our Total Fluid Management aims for both sustainability and reduced operational costs, providing a dual advantage of environmental responsibility and economic efficiency.

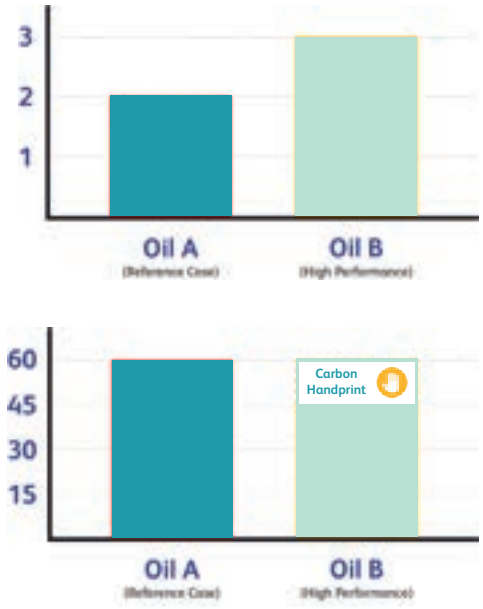
In summary, it ensures manufacturing optimization, positions your organization as a sustainable leader, and delivers long-term value with positive environmental impact.

Q8Oils Sustainability

WHY IS PCF IMPORTANT?
(Product Carbon Footprint)

- Evaluation of the PCF includes evaluation of the use phase (= handprint/avoided emissions)
- The product carbon handprint describes the positive environmental impact of the product in use throughout its lifetime.
- Improved focus on the carbon handprint can identify opportunities to reduce the impact on the environment and drive change.

The carbon handprint are the avoided emissions in the use phase of lubricants



OUTSTANDING BIOSTABILITY

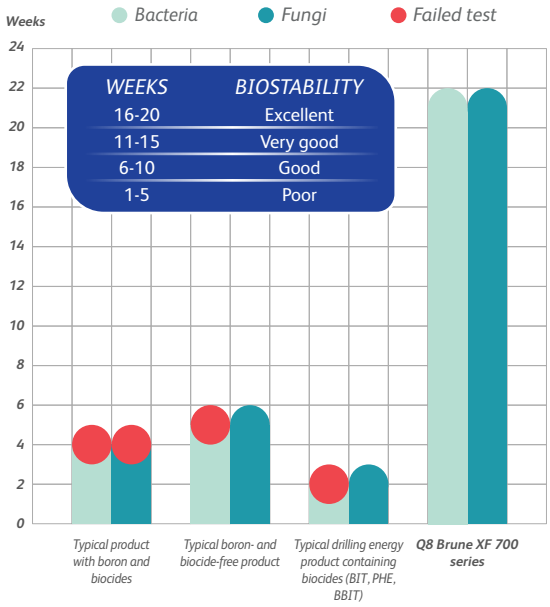
This range is characterised by a high environmental profile; although free of boron and biocides, it possesses an extraordinary bacterial biostability that results in less waste and the saving of biocide additives.

The biostability of cooling fluids is assessed with specific tests called Challenge Tests, in which high concentrations of bacteria and fungi are inoculated into the emulsion on a weekly basis.

At the end of each week, the level of proliferation of bacteria and fungi in the sample is checked.

If there is a high contamination of 1*106 found in the emulsion for two consecutive weeks, the test is considered to have failed, and testing stops.

Our research drives innovation to enhance product performance while minimising environmental impact.



CONCLUSIONS

PCF evaluation (Cradle-to-Gate) indicates higher footprint value for product B.

After LCA (Life Cycle Assessment) and evaluating the use phase, after 10 thousand hours in excavator equipment. The total emissions due to the use of product B are lower.

The Q8 Brunel XF 700 series achieved an extraordinary result: the test was stopped after 22 weeks without having developed contamination.

Q8Oils' Carbon Handprint is helping our metalworking partners in over 90 countries to reduce their Carbon Footprint.

In line with KPC objectives to reduce GHG emissions by 55% by 2030 and to achieve Net Zero targets by 2050, we are continuing to improve our Carbon Handprint and extend our reach to help lower emissions across the entire sector.

HERE'S HOW:

- Sustainable focus on the innovation of better products that support longer oil life, lower consumption, and greater energy efficiency. Our Blending Plant in Castellar Guidobono, Italy, specialises in metalworking solutions. It has its own on-site lab and R&D department dedicated to ensuring continued improvement of Q8Oils' products
- Development of biodegradable products
- Recycling by incorporating the use of re-refined base oils
- Reducing toxicity of products through R&D to lessen environmental impact from chemicals such as chlorine and boron
- Improving the sustainability of product packaging by reducing the use of non-recyclable materials and reducing packaging volume in favour of product refill bags and pouches

Reducing our Carbon Footprint

Alongside improving our Carbon Handprint to support our metalworking partners in reducing their Carbon Footprint, we are actively committed to continuing to lessen the environmental impact of Q8Oils' metalworking fluid production processes.

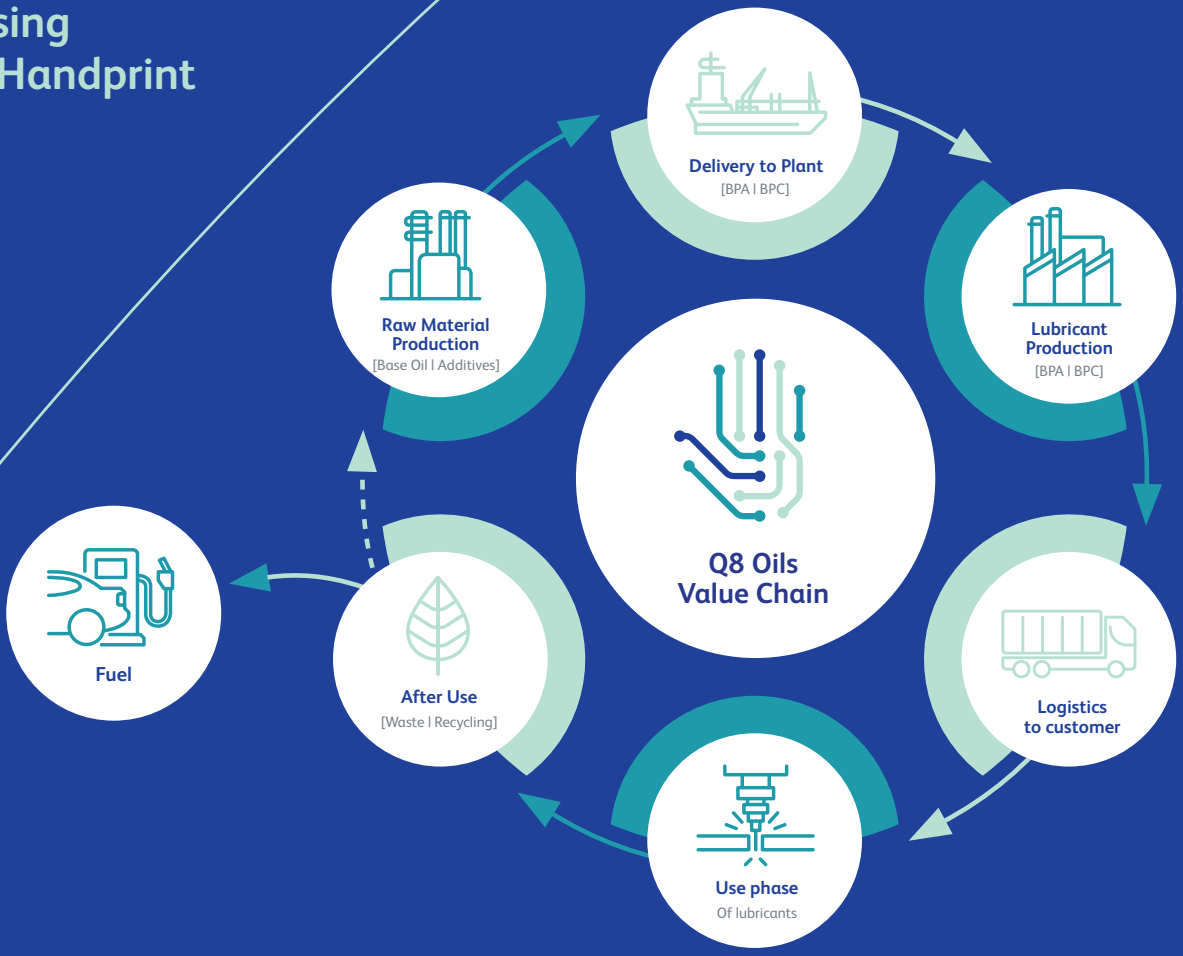
HERE'S HOW:

- Focusing on sustainable production processes
- Reducing GHG emissions in production plants
- Careful selection of sustainable base oils
- Careful selection of sustainability in suppliers
- Local production of Q8Oils products
- Optimising logistics to minimise transport emissions
- Using green energy in our plants through use of solar cells
- Lowering energy consumption within plants by replacing lighting with LED lighting, installing solar water heaters, and making use of rainwater in the production of steam and for flushing toilets
- Monthly reporting of plant energy consumption and implementation of energy monitoring software to map and improve energy flows
- Working with colleagues to increase awareness of waste management

The product Carbon Footprint (PCF), cradle-to-gate (Q8Oils state of the art facility in Belgium), of Q8 Brunel XF 753 is 1.60 kg CO2eq / kg.
This product has won the METEF Innovation Award in Green Materials and Processes category.

Choose Q8Oils as your sustainable metalworking fluid partner.

Minimising Carbon Footprint, Maximising Carbon Handprint



Reduce Footprint:

Raw Material Production

- Raw material selection
- Including sustainability in supplier selection (procurement)

Delivery to Plant

- Local production
- Optimisation logistics

Lubricant Production

- Green energy / solar cells
- Lowering energy consumption
- Optimization program / emissions reduction

Logistics to Customer

- Local production
- Optimisation logistics

Increase Handprint:

Use Phase

- Better products (through innovation), e.g. longer oil life, lower consumption, energy efficiency

After Use – Fuel

- Biodegradable products
- Recycling (use of re-refined)

Q8Oils European Facilities

Antwerp, Belgium

Q8Oils' Blending Plant in Antwerp is located by the river Scheldt, facilitating the delivery of raw materials by ship or barge.

The finished lubricants are sold in bulk or in packages ranging from 1 to 1,000 litres. The ISO certification and integrated control by Q8Oils' Quality Department ensure safe products of the highest quality.

With a capacity of 250 million litres it is also Europe's largest blending plant.

Castellar Guidobono, Italy

Our Italian plant is located close to the town of Castellar Guidobono, south of Milan.

It has highly automated small pack filling facilities and supplies customers worldwide with Q8Oils, Germ-Allcard, Q8Oils Roloil and Q8Oils marine-branded products.

The plant's flexibility enables Q8Oils to produce an extensive range of products for all specialist and customer needs.

The laboratory drives innovation, sets top quality standards, and shapes the future of lubricant manufacturing in Europe.

Visit our website
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