

Water soluble cutting fluids

smart manufacturing solutions



Metalworking fluids at the cutting edge



Q8Oils' metalworking fluids are the result of more than 100 years of product development and application experience. Our chemists and product engineers take an innovative and progressive approach to developing different grades for all types of metal machining and precision engineering applications.

Our metalworking fluids perform to the highest standards in today's demanding manufacturing environment. We create smart products that extend tool life and reduce operating costs, while staying a step ahead of the increasing demands arising from higher fluid pressures, faster cutting speeds, new materials and advanced tool technologies.

By offering a range of fluids from general purpose through to extreme performance products, we help our customers balance cost with criteria such as surface finish, severity of the operation, working environment and productivity.

Our technologically advanced ranges of metalworking fluids are fully compliant with the latest legislation:

- **Q8 Brunel:** our flagship range for the most advanced applications. Free of formaldehyde, chlorine, secondary amines, boron and boric acid
- **Q8 Berlioz:** free of formaldehyde, chlorine and secondary amines

Benefits of Q8Oils metalworking fluids:



Cool

Reduce friction

Prevent tool wear

Promote good surface finish

Keep machines clean

Prevent corrosion

Flush away chips

Control foaming

Prevent bacteria & fungi

Reduce power consumption

Working safely with metalworking fluids

Choosing the correct metalworking fluid with the right balance of safety and performance is an important step in protecting employees and improving productivity.

It is important to appreciate that the composition of a metalworking fluid changes in use. Changes include both chemical deterioration and contamination, such as tramp oil, and also microbiological contamination.

Exposure to metalworking fluids can be hazardous to the skin, eyes and more critically to the airways and lungs. In extreme cases it can result in serious respiratory diseases. Employers have a responsibility to ensure that measures are taken to minimise operators' exposure to these fluids.

Minimising risk

- use the most appropriate product
- carry out a risk assessment and identify ways to reduce exposure
- conduct a fluid monitoring programme
- provide adequate local exhaust ventilation (LEV)
- ensure employees wear personal protective equipment

Legislation on the length of time required to keep records can vary by region, but for best practice Q8Oils recommend:

5 Years

fluid monitoring checks & LEV maintenance

40 Years

keep employee health records, including any exposure to hazardous substances

How Q8Oils can help

We have vast experience in handling MWFs and can offer advice on the most appropriate metalworking fluid for your application, which balances safety and efficiency.

We can advise you on the best way to set up an efficient fluid monitoring programme, which will also help minimise unscheduled maintenance, increase coolant life and optimise performance.



Q8 Brunel



Solutions for the most challenging applications and outstanding environmental protection

To help our customers achieve their technical and environmental targets, our comprehensive Q8 Brunel range ensures a solution for every application.

These lubricants provide exceptional performance with superior wetting, anti-wear and extreme pressure characteristics. They maximise cooling, improve tool life and surface finish, and resist foaming, while protecting sensitive materials such as aerospace aluminium alloys.

Q8 Brunel is fully compliant with European environmental and chemical legislation and is free of:

- formaldehyde
- chlorine
- secondary amines
- boron
- boric acid

Product Type	Q8 Brunel XF 111	Q8 Brunel XF 132	Q8 Brunel XF 263	Q8 Brunel XF 277	Q8 Brunel XF 280	Q8 Brunel XF 343	Q8 Brunel XF 355	Q8 Brunel XF 450	Q8 Brunel XF 527	Q8 Brunel XF 530	Q8 Brunel XF 575
Applications											
Grinding	✓	✓	✓			✓	✓	✓	✓	✓	✓
Machining	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
Materials											
Copper alloys	✓	✓		✓	✓	✓	✓	✓		✓	
Cast iron	✓	✓	✓			✓	✓	✓	✓	✓	✓
Steel	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
Stainless steel	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
Aluminium	✓	✓	✓	✓	✓	✓	✓	✓			
Aerospace aluminium			✓	✓	✓	✓	✓	✓			
Titanium			✓		✓	✓	✓	✓	✓	✓	
Hard / super alloys			✓		✓	✓	✓	✓	✓	✓	
Carbide									✓		
Composites										✓	✓
Emulsion appearance	Translucent	Translucent	Semi-translucent	Semi-translucent	Tight milky	Milky white	Tight milky white	Semi-translucent	Colourless solution	Colourless solution	Colourless solution
pH @5% in D.I. water	9.1	9.4	9.0	9.0	9.6	9.0	9.4	9.2	9.6	9.4	9.3
Refractomer factor	2.10	1.80	1.20	0.90	1.00	1.20	1.00	1.60	1.50	1.50	2.00

✓ Recommended

✓ Consult Q8Oils

Further advice is available from your representative or our technical department

Q8 Berlioz



Soluble fluids free of formaldehyde, chlorine and secondary amines

Q8 Berlioz is a comprehensive range of metalworking fluids that balance performance with the latest European legislation requirements. They incorporate the latest additive technology and are designed to cover every application, from economical to high performance.

- free of formaldehyde, chlorine and secondary amines
- fully compliant with TRGS 611 legislation
- low foaming and stability in all levels of water hardness
- superior bio-stability and corrosion protection

Product Type	Q8 Berlioz XVP	Q8 Berlioz XVH	Q8 Berlioz XMA	Q8 Berlioz XRC	Q8 Berlioz XRS	Q8 Berlioz XMR
Applications						
Grinding	✓	✓	✓	✓	✓	
Machining	✓	✓	✓	✓		✓
Materials						
Copper alloys	✓	✓		✓		✓
Cast iron	✓	✓	✓	✓	✓	✓
Steel	✓	✓	✓	✓	✓	✓
Stainless steel	✓	✓	✓			✓
Aluminium	✓	✓	✓			✓
Aerospace aluminium		✓	✓			
Titanium		✓	✓			
Hard / super alloys		✓	✓			
Carbide						
Composites					✓	
Emulsion appearance	Translucent	Tight milky white	Semi-translucent	Translucent	Colourless solution	Milky white
pH @5% in D.I. water	9.3	9.1	9.3	9.5	9.6	9.8
Refractomer factor	1.60	1.00	1.30	2.30	2.30	0.90

✓ Recommended ✓ Consult Q8Oils



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