

# Q8 Bach

# A new generation of neat oils



# Value and sustainability

At Q8Oils, environmental awareness is embodied in a constant pursuit of solutions that guarantee customers an ever-higher level of performance combined with a minimised environmental impact. Q8Oils focuses all its development work on finding the perfect combination of these two fundamental requirements.

Our products represent the key value added benefits of Q8Oils to our customers in terms of both operational requirements and significant improvements to enhance their business.

![](_page_1_Picture_3.jpeg)

## Increased productivity

A better-performing product means increased tool life and better surface finish: less wear, less maintenance on tools and less production downtime. A range of multifunctional cutting fluids that are therefore compatible with different materials. Ultimately, reduced cycle times, faster production and less waste.

![](_page_1_Picture_6.jpeg)

## Reduced operational costs

A higher quality product ensures significant cost reduction along the entire production chain: the cutting capabilities allow for higher production speeds while the special cleaning and lubricating powers ensure better machine operation and less maintenance. Less evaporation ensures a longer life span and less disposal. All factors that decrease energy consumption.

![](_page_1_Figure_9.jpeg)

#### Improved working environment

The use of alternative, biodegradable bases, reduced energy consumption and increased productivity have a positive effect on the environmental impact generated by the process. The improved safety profile generates additional effects: the product's almost nonexistent/neutral odour and minimal mist generation have a significant impact on the operating environment in terms of user tolerability. All factors that contribute to a healthy working environment.

#### Evaporation test at 50 °C

Through specific laboratory tests, confirmed by use in the field, the Q8 Bach 7000 series has the following characteristics due to the new natural gas-derived lubricant base technology:

Less product evaporation compared to conventionally based fluids and other synthetic fluids, therefore:

- Less product consumption
- Less exposure to oil mist and vapours.

![](_page_1_Figure_17.jpeg)

## 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.

![](_page_2_Picture_5.jpeg)

Colourless and odourless

![](_page_2_Picture_7.jpeg)

Contains no sulphur, nitrogen, aromatic compounds, PAHs or BaPs

![](_page_2_Picture_9.jpeg)

Very narrow molecule distribution

![](_page_2_Figure_11.jpeg)

Special anti-wear additive <u>supp</u>lementation

![](_page_2_Picture_13.jpeg)

High oxidation

stability

![](_page_2_Picture_14.jpeg)

High flash point and low volatility

# Q8 Bach 7000 series

### Cutting lubricants with bases derived from natural gases.

The Q8 Bach 7000 series consists of chlorine-free cutting oils with extreme pressure (EP) additives. These highperformance cutting oils are based on the latest high-purity synthetic base fluid technology, chemically obtained from natural gas, free of polycyclic aromatic compounds (PAHs and BaPs). The high flash point and improved safety profile make the Bach 7000 Series a safe, effective solution. Low volatility reduces consumption and ensures a safe and healthy working environment. Q8 Bach 7000 products are designed to suit all metalworking applications, including carbon steels, high-alloy steels, stainless and heat-resistant steels, aluminium and copper alloys.

![](_page_3_Picture_3.jpeg)

**Properties and characteristics** 

#### Chlorine-free inactive cutting oils

	Typical use								e				
	Viscosity cSt at 40 °C	4-ball welding (kg)	Yellow alloys	EP	Compatibility with cobalt	Lapping	Grinding	General machining	Drilling	Deep hole drilling	Rolling	Broaching	Gear toothing
Q8 Bach 7006	6	200	1	1	1	•	•						
Q8 Bach 7012	12	480	1				٠	•	•				
Q8 Bach 7022	22	420	1				•	•	•				
Q8 Bach 7032	32	460	1					•					•

#### Chlorine-free active cutting oils

						Typical use							
	Viscosity cSt at 40 °C	4-ball welding (kg)	Yellow alloys	EP	Compatibility with cobalt	Lapping	Grinding	General machining	Drilling	Deep hole drilling	Rolling	Broaching	Gear toothing
Q8 Bach 7510	9	>800	4	111				•	•	٠			
Q8 Bach 7515	16	>800	4	111				•	•	•	•	•	
Q8 Bach 7520	23	>800	4	111				•	•	•	•	•	
Q8 Bach 7530	33	>800	4	111				•			•	٠	•

## **Q8**@Oils Q8 Bach XNRG series

## Cutting bio-lubricants with bases derived from synthetic esters

Q8 Bach XNRG bio-lubricants were created as a specific response by Q8Oils to market demand for a range of biodegradable lubricants which, to be defined as such according to the European Committee for Standardization (CEN), responsible for developing and setting standards at European level, must exceed the EN 16807 standard. The experts at our Q8Oils research laboratory replaced commonly used mineral oils with synthetic esters to create the Q8 Bach XNRG series. Formulated using natural, renewable materials, these high-quality biodegradable lubricants outperform traditional mineral oil-based cutting fluids. They deliver excellent cutting performance across all applications with minimal environmental impact and help improve the working environment.

![](_page_4_Picture_3.jpeg)

Properties and characteristics

#### Chlorine-free inactive biodegradable cutting oils

	Viscosity cSt at 40 °C		Yellow alloys	EP	Cobalt	Typical use								
		4-ball welding (kg)				Lapping	Grinding	General machining	Drilling	Deep hole drilling	Rolling	Broaching	Gear toothing	
Q8 Bach XNRG 6	6	420	1	11	-	•	•	•						
Q8 Bach XNRG 12	12	340	1	11	-		•	•	•					
Q8 Bach XNRG 15	15	>800	1	111			•	•	•	•	•	•		
Q8 Bach XNRG 25	23	440	1	11				•	•		•			
Q8 Bach XNRG 32	32	380	1	11				•					•	
Q8 Bach XNRG 44	44	260	1	11				•					•	

![](_page_5_Picture_0.jpeg)

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