PRODUCT DATA SHEET

Q8 Brunel XF 512

High performance full-synthetic biostable grinding fluid

Description

Q8 Brunel XF 512 is a high performance full-synthetic biostable grinding fluid. The product has excellent physical-chemical and biological stability, minimal tendency to foaming, excellent detergency and wide spectrum of compatibility with both hard and soft water. When mixed with water, this product forms a transparent, stable solution that is clean in use and provides excellent corrosion protection to all ferrous metals.

Applications

Q8 Brunel XF 512 is a high performance fully synthetic biostable soluble metal working fluid specifically designed for grinding operations (surface, cylindrical, centerless) on cast iron, carbon steel and stainless steel.
The use can be extended to light cutting operations on steel and cast iron.

User instructions

1. *The correct mixing procedure is to add Q8 Brunel XF 512 to water and stir. For this operation we recommend positive displacement (Dosatron type) mixing units.*
2. *In order to preserve the integrity of this product drums should be stored inside a building protected from frost and direct sunlight.*
3. *Appearance concentrate: a potential colour change is normal for this type of formulation due to its unique chemistry, but has absolutely no harmful effect on the product and its performance.*
4. *Recommended concentrations are listed below:*

Grinding	3 - 5 %
General machining	6 - 8 %

Note: In some circumstances and applications, it is beneficial to exceed the recommendations shown above.

Environment, Health and Safety

Q8 Brunel XF 512 is free of formaldehyde, MEA, chlorine, boron, boric acid and secondary amines. Thanks to it's unique formulation, this product is free of any biocides. It is compliant with the TRGS 611 specification. This ensures environmental safety & operator health. Please consult the Material Safety Data Sheet for instructions regarding safe handling and environmental issues.

Properties

	Method	Unit	Typical
Mineral oil content	-	%	0
Density, 20 °C	D 4052	kg/l	1.077
Appearance (Emulsion)	Visual	-	Trasparent
pH@3% in 400 ppm CaCO3 water	D 1287	pH	9.5
Determination of rust prevention characteristics of water-mix metalworking fluids	IP 287	%	2
Corrosion characteristics of water-mix metalworking fluids	IP 125	%	2
Refractometer Factor	-	-	2.0

The figures above are not a specification. They are typical figures obtained within production tolerances.

Remarks

Please contact your Q8Oils representative for further advice and support on your specific application.

Sustainability

The product Carbon Footprint (PCF), cradle-to-gate (Q8Oils state of the art facility in Belgium), of Q8 Brunel XF 512 is ***1.32*** *kg CO_2eq / kg.*
Please contact Q8Oils to learn more about the positive environmental impact, the handprint, of this product.
To ensure accuracy and reliability, the PCF calculation tool has been verified by an independent third party. The verification report is available in the disclaimer.
For more info check here

we take care

PRODUCT CARBON FOOTPRINT
METHOD VALIDATED BY:

PCF CALCULATION IN LINE WITH:
ISO 14067 | ATIEL-UEIL PCF

VINÇOTTE