PRODUCT DATA SHEET

Q8 Brunel XF 263

Superior performance semi-synthetic biostable water soluble cutting fluid for heavy duty machining

Description

Q8 Brunel XF 263 is an advanced multipurpose, semi-synthetic, water soluble cutting and grinding fluid for heavy duty machining. It forms a tight milky emulsion when mixed with water. The fluid has advanced lubricity additives to enable a superior machining performance with an excellent surface finish. Thanks to its advanced formulation, Q8 Brunel XF 263 provides an excellent chemical- and biological stability and its high detergency offers advanced cleanliness. Due to its ultra-low foaming properties, the fluid is also suitable for high pressure- and high speed systems and tool applications.

Applications

Q8 Brunel XF 263 is recommended for all heavy duty machining applications on steel alloys, stainless steel, Inconel, titanium alloys and aluminium alloys in particular high silicon aluminium alloys. Q8 Brunel XF 263 is also recommended for machining where high pressures and high speeds are used as well through tool applications.

User instructions

1. *The correct mixing procedure is to add Q8 Brunel XF 263 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. *Recommended concentrations are listed below.*

General machining and tapping	*6 – 8 %*
Heavy duty machining	*8 – 12 %*

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

Environment, Health and Safety

Q8 Brunel XF 263 is free of added formaldehyde, chlorine, boron, boric acid and secondary amines. 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
Appearance (Emulsion)	*Visual*	*-*	*Semi-translucent*
Density, 20 ˚C	*D 4052*	*g/ml*	*0.991*
Kinematic Viscosity, 40 ˚C	*D 445*	*mm²/s*	*96*
pH@3% in 400 ppm CaCO3 water	*D 1287*	*pH*	*9.5*
Refractometer Factor	*-*	*-*	*1.2*
Mineral oil content	*-*	*%*	*28*
Determination of rust prevention characteristics of water-mix metalworking fluids	*IP 287*	*%*	*4*
Corrosion characteristics of water-mix metalworking fluids	*IP 125*	*%*	*2*

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 and equipment.

Sustainability

The product Carbon Footprint (PCF), cradle-to-gate (Q8Oils state of the art facility in Belgium), of Q8 Brunel XF 263 is ***1.37*** *kg* CO_2*eq / 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