

Q8 Brunel XF 343

Exceptional performing water-soluble cutting fluid for aerospace machining

Description

Q8 Brunel XF 343 is an exceptional performance semi-synthetic water-soluble cutting fluid designed to excel on arduous machining operations and materials for aerospace applications. A unique combination of synthetic lubricity additives provides outstanding performance in aluminium machining. Q8 Brunel XF 343 has excellent wetting- and detergency characteristics and is suitable for use in soft and hard water areas, resulting in excellent fluid stability and long sump life.

Applications

Q8 Brunel XF 343 is designed for milling, turning, drilling / deep hole-drilling, threading, reaming and broaching operations. Q8 Brunel XF 343 is developed specifically for the aerospace market sector for all machining of aerospace aluminium alloys including 7000 series, titanium alloys, Inconel and copper alloys.

User instructions

1. The correct mixing procedure is to add Q8 Brunel XF 343 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	5 – 7%
Severe operations	7 – 9%

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

Environment, Health and Safety

Q8 Brunel XF 343 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	-	Translucent
Density, 20 °C	D 4052	g/ml	0.996
Kinematic Viscosity, 40 °C	D 445	mm ² /s	110
pH@3% in 400 ppm CaCO ₃ water	D 1287	pH	9
Refractometer Factor	-	-	1.2
Mineral oil content	-	%	27
Corrosion characteristics of water-mix metalworking fluids	IP 125	%	3
Determination of rust prevention characteristics of water-mix metalworking fluids	IP 287	%	5

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

Remarks

DASSAULT specification DQGT0.4.2.0065 index E. . PMUC EV20-01097 (Maximum concentration 32% in a compliant water to RCC-M specification) . . Please contact your Q8Oils representative for further advice and support on your specific application and equipment.