PRODUCT DATA SHEET

Q8 Brunel XF 753

Exceptional performing extremely biostable water-soluble cutting fluid

Description

Q8 Brunel XF 753 is an advanced biostable soluble metalworking fluid incorporating the latest technology of high purity synthesized base fluids obtained chemically from natural gas in an unique combination with lubricity additives and selected key components to provide outstanding performance. Q8 Brunel XF 753 offers superior wetting and detergency characteristics, reducing fluid drag out and ensuring excellent machine cleanliness. Fluid consistency remains stable in either soft or hard make-up water.

Applications

Q8 Brunel XF 753 is designed to excel on a wide range of high speed machining applications processing titanium and ferrous or non-ferrous materials as well as automotive and aerospace aluminium alloys. The versatile formulation is highly resistant to bacterial infection and significantly exceeds conventional fluid duration periods, providing noticeable cost and waste reductions. With limited maintenance required, Q8 Brunel XF 753 is ideally suited for centralised systems and single sump machines utilising 'lights-out' practices. It is recommended for medium to heavy machining on ferrous materials, including high alloy steel and cast iron.
It gives no staining on aluminium alloys, and the use can be extended to copper alloys.
The product is also suitable for Mapal reaming.

User instructions

1. *The correct mixing procedure is to add Q8 Brunel XF 753 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 (5-40 ˚C) protected from frost and direct sunlight.*
3. *Recommended concentrations are listed below.*

General machining	4 – 6 %
Severe operations	8 – 12 %

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

Environment, Health and Safety

Q8 Brunel XF 753 has an advanced safety profile. It does not contain biocide and it is free of chlorine, cresols, nitrites, boron, boric acid, DCHA and secondary amines. It is compliant with the TRGS 611 specification. This ensures environmental safety & operator health. Also the reduced smell in the application improves operator environment. Please consult the Material Safety Data Sheet for instructions regarding safe handling and environmental issues.

Properties

	Method	Unit	Typical
Base fluid content	-	%	34
Density, 20 ˚C	D 4052	g/ml	0.922
Kinematic Viscosity, 40 ˚C	D 445	mm²/s	45
Appearance (Emulsion)	Visual	-	Tight-milky
pH@3% in 400 ppm CaCO3 water	D 1287	pH	9.5
Determination of rust prevention characteristics of water-mix metalworking fluids	IP 287	%	3
Corrosion characteristics of water-mix metalworking fluids	IP 125	%	2
Refractometer Factor	-	-	1.2

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

Remarks

Successfully passed Airbus AIMS laboratory test requirements AIMS 12-10-000 / AIMS 12-10-001 / AIMS 12-10-003. Safran/Snecma PR 6300 approval. Safran PCS 4001 approval. Dassault DGQT 0.4.2.0065 – Index E approval. PMUC compliant. Omneo Grade 2 approval: OMNEO Systems has awarded the official release certificate for the use of Q8 Brunel XF 753 in processes that must meet the specifications set for "ASML GSA 07 9510 Grade 2 Molecular". 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 753 is **1.60** 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