PRODUCT DATA SHEET

# Q8 Brunel XF 662

***Full synthetic water-soluble mineral oil free cutting fluid***

## Description

*Q8 Brunel XF 662 is an advanced full synthetic, polymer based soluble metalworking fluid incorporating the latest mineral oil free technology in an unique combination of synthetic lubricity additives and select key components to provide outstanding performance. It offers superior wetting and detergency characteristics, reducing fluid drag out and ensuring excellent machine cleanliness, clarity and workpiece vision. Fluid consistency remains stable in either soft or hard make-up water and corrosion protection is assured. It has a mild pH for good skin compatibility.*

## Applications

*Q8 Brunel XF 662 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, it 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.*

## User instructions

1. *The correct mixing procedure is to add Q8 Brunel XF 662 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 662 has an advanced safety profile. 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 mild pH for good skin compatibility and 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 |
|---|---|---|---|
| Mineral oil content | - | % | 0 |
| Density, 20 ˚C | D 4052 | g/ml | 1.071 |
| Kinematic Viscosity, 40 ˚C | D 445 | mm²/s | 30 |
| Appearance (Emulsion) | Visual | - | Transparent |
| pH@3% in 400 ppm CaCO3 water | D 1287 | pH | 8.5 |
| Determination of rust prevention characteristics of water-mix metalworking fluids | IP 287 | % | 4 |
| Corrosion characteristics of water-mix metalworking fluids | IP 125 | % | 3 |
| Refractometer Factor | - | - | 1.3 |

*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 662 is* ***1.63*** *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