SO-COOL AERO PREMIUM MWF

High performance water miscible cutting fluid

APPLICATION

SO-COOL AERO PREMIUM MWF is a high performance soluble metalworking fluid with outstanding sump life for use in both ferrous and non-ferrous applications. It is formulated to form a stable emulsion in both soft and hard waters whilst also maintaining excellent foam control.

Specially selected additives provide excellent lubrication for cutting, drilling, tapping, broaching, milling, reaming, honing and sawing operations, leading to excellent surface finishes and extended tool life.

Ideal for high pressure (>1000 psi) fluid delivery applications including gun-drilling and honing.

The heavy-duty lubricant package protects tools in roll-form tapping and reaming on various grades of wrought aluminium, cast aluminium, steel, stainless steel, titanium, and inconel. It also provides excellent rust protection for ferrous metals, and outstanding staining control for non-ferrous metals.

ADVANTAGES / BENEFITS

- **Advanced lubricant chemistry**
- **Excellent rust/staining protection**
- **Low residue**
- **Excellent foam control - Zero foam in high pressure fluid delivery applications**
- **Good mix stability - Stable emulsions in very soft and very hard water**
- **Outstanding sump life**
- **Excellent surface finishes and extended tool life**
- **Preserves parts and equipment**
- **Clean running operation**
- **Extended service life/lower treatment costs**

MACHINE CLEANING

To optimise service life, the machine should be flushed thoroughly using a system cleaning fluid prior to recharging with fresh fluid.

STORAGE

Soluble oil concentrates may be damaged by frost. Store indoors at ambient temperatures.

FLUID MONITORING

As with all modern cutting fluids, concentration control is of paramount importance, therefore regular check by use of a refractometer is recommended for this product. It should be noted that the individual product refractometer correction factor should always be used to ensure accuracy.

COMPONENT PROTECTION

Following manufacturing operations Cromwell recommends the use of our fully compatible cleaners and corrosion preventives to clean and protect your components. Please refer to data sheets, or contact your local Cromwell Area Manager to discuss your requirements.

Cromwell Tools Limited
PO Box 14, 65 Chartwell Drive
Wigston, Leicester LE18 1AT

Phone +44 (0) 116 288 8000
Email info@cromwell.co.uk

SO-COOL AERO PREMIUM MWF

High performance water miscible cutting fluid

APPLICATION CONCENTRATION

To ensure the optimum corrosion protection, and lifetime of the emulsion, we recommend a concentration range from 5 – 10%.

However, the ultimate concentration must also be compatible with the materials involved and the machining operation.

MIXING TEMPERATURE

The optimum mixing temperature for water and concentrate is 15 – 20°C.

Our Application Specialists will be pleased to advise you regarding specific applications.

Changes in colour and slight sedimentations in the water-miscible cutting fluid concentrate have no adversely effect on the quality or the performance of the product.

TECHNICAL DATA

Characteristics	Unit	Result	Test Method
Appearance: Concentrate Emulsion		 Clear amber liquid Milky white emulsion	
Odour		Mild	
Weight	lbs/gal	8	ASTM D287
pH value, 5% emulsion		9.2	
Chlorine (as EP)		None	
Refractometer correction factor		1.0	

Note: Refractometer Reading x Correction Factor = Actual Concentration

AVAILABLE PACK SIZES

Grade Name	Pack Size	Part Number
SO-COOL AERO PREMIUM MWF	20ltr	SOL-740-5315F

Cromwell Tools Limited
PO Box 14, 65 Chartwell Drive
Wigston, Leicester LE18 1AT

Phone +44 (0) 116 288 8000
Email info@cromwell.co.uk