



Excellfluid EVO AL

High Performance, Formaldehyde free, low foam metal working fluid

Product code: S132

Product Description:

Excellfluid EVO AL offers excellent cutting performance and can be used in all types of arduous manufacturing applications. The performance additives incorporated into the fluid provide outstanding surface finish on all types of Aluminium and yellow metals. The unique formulation prevents scum and soap formation associated with more reactive materials. Excellfluid EVO AL has been developed to exhibit full multi-metal compatibility and is suitable for use on critical aerospace materials and alloys that are used in today's aircraft industry. To be used in both soft and hard water conditions from 0 – 500ppm

Suitable for use in both moderately soft and hard water and for the use on a wide range of difficult materials. The product is truly a 'multi-metal' fluid and is the perfect choice for all modern manufacturing, including automotive, aerospace and high-end manufactured components.

Features & Benefits:

- Excellent machining characteristics
- Free from Formaldehyde release biocides
- DCHA and Secondary Amine free
- Excellent corrosion protection
- Diluent water from 0ppm – 500ppm
- Ultra-low foaming tendency
- Suitable for sensitive metals and Alloys
- High operator compatibility

Typical Test Data:

Appearance	Amber liquid
Emulsion Type	Semi Translucent
Foaming Tendency	
5% emulsion in 50ppm water	Nil foam after 5 seconds
Specific Gravity at 20oC	0.94 typical
pH @ 5%	9.2 typical
Refractometer Correction Factor	1.01
IP 287 Corrosion Break Point, %	3.0
IP 125 Corrosion @ 2%	0/0-0
Reichert Lubricity Characteristics at 10% dilution	
Noise Reduction (metres)	29
Load Bearing Capacity (Kg/mm2)	1.29
Oil Content %	55



TECHNICAL DATA SHEET

Materials & Performance:

Material types	Performance Rating
Titanium	***
Aluminium	****
Aero aluminium alloys	****
High alloy/stainless steel	****
Copper/brass	***
Ferrous Materials	****

Applications	Dilution
Tapping	8 – 10 %
Milling	5 – 7 %
Turning	5 – 7 %
Reaming	8 – 10 %
Sawing	5 – 7 %
Drilling	7 – 10 %
Grinding	4 – 6%

The above is given for guidance only.

Product management:

The working concentration should be carefully controlled and monitored daily as higher and lower working concentrations have health and safety implications. Machines should be cleaned out regularly. Fluid and particulate contaminants should be kept to a minimum. This is important especially in terms of bacterial control and is in line with the latest advice from government and professional sources.