



# Excellfluid EVO EPDX

An ultimate chlorine free water-mix metalworking fluid

Product code: S133

## Product Description:

Excellfluid EVO EPDX uses the latest in Formaldehyde release technology offering significant advantages in performance without the use of Chlorinated additives. It is inherently low foaming and hard water stable. It is suitable for use on a wide range of difficult materials and is a perfect choice for aerospace manufacturing. Excellfluid EVO EPDX offers exceptional machining performance and can be used in all types of arduous manufacturing applications including creep feed grinding. The performance additives incorporated into the fluid provide outstanding surface finish on all types of aluminium and associated alloys as well as high tensile steels. The unique formulation also prevents scum and soap formation associated with more reactive materials. Excellfluid EVO EPDX is extremely low foaming making it suitable for use in high pressure coolant systems often associated with modern CNC machine tools.

Excellfluid EVO EPDX is highly biostable and exhibits extended sump life whilst maintaining its high levels of anti-corrosion properties.

## Aviation Standards

Excellfluid EVO EPDX is an excellent choice for the manufacture of aviation parts meeting all subcontractor test specifications including Rolls Royce RPS 917/RRP 59000.

## Features & Benefits:

- Excellent machining characteristics
- Chlorine and Secondary Amine free
- Free from Formaldehyde release biocides
- Environmentally respectable
- Used in all difficult applications
- Ultra-low foaming tendency
- Multi-metal compatible
- Outstanding levels of boundary lubrication

## Typical Test Data

Emulsion Type	Opaque white
Foaming Tendency @ 5% emulsion in 50ppm water	Nil foam after 5 seconds
Specific Gravity at 20oC	0.95 typical
pH @ 5%	9.3 typical
Refractometer Factor	1.1
IP 287 Corrosion Break Point, % Volume:	2.5
Reichert Lubricity Characteristics at 10% dilution;	
Noise Reduction (metres)	20
Oil Content	44%



**Materials & Performance**

**Material types**

Titanium  
Aluminium  
Aero aluminium alloys  
High alloy/stainless steel  
Copper/brass  
Ferrous Materials

**Performance Rating**

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**Applications**

Tapping  
Milling  
Turning  
Reaming  
Sawing  
Drilling  
Grinding

**Dilution**

8 – 10 %  
5 – 7 %  
5 – 7 %  
8 – 10 %  
5 – 7 %  
7 – 10 %  
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.