



# Excelfluid EVO EP

High performance, high oil water-mix metalworking fluid

Product code: S145

## Product Description:

High performance, High oil semi-synthetic water extendable cutting fluid designed to give a long-life, bio-resistant and ultra-stable emulsion. Excelfluid EVO EP contains sophisticated “extreme pressure” additives to ensure excellent cutting performance.

Unrivalled EP cutting performance allows the grade to be used in all types of arduous manufacturing applications. The blend of EP performance additives provides outstanding surface finish and tool life on all types of aluminium, yellow metals and both ferrous and non-ferrous materials. The unique formulation prevents scum and soap formation associated with more reactive materials. The product has outstanding tramp oil rejection properties which means excellent cleanliness of the machine tool can be maintained

The unique low foam emulsifier system does not rely on traditional antifoams for foam control. The emulsion when in use produces 50% less foam compared to similar emulsion types with a 50% repeatable rapid increase in foam collapse. To be used in both soft and hard water conditions from 0ppm – 350ppm.

## Features & Benefits:

- Excellent machining characteristics
- Free from Formaldehyde release biocides
- Low foam / low misting characteristics
- Excellent EP performance
- Operator friendly
- Low top up rates
- Multi-metal compatible
- Outstanding anti-corrosion properties

## Typical Test Data

Emulsion Type	Semi translucent (Milky)
Foaming Tendency @ 5% emulsion in 50ppm water	Nil foam after 5 seconds
Specific Gravity at 20oC	0.95 typical
pH @ 5%	9.2 typical
Refractometer Factor	1.1
IP 287 Corrosion Break Point, % Volume:	2.0
Reichert Lubricity Characteristics at 10% dilution;	
Noise Reduction (metres)	20
Oil Content	43%



**Materials & Performance**

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

<b>Applications</b>	<b>Dilution</b>
Tapping	8 – 10 %
Milling	5 – 7 %
Turning	5 – 7 %
Reaming	8 – 10 %
Sawing	5 – 7 %
Drilling	8 – 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 using Exol HD System Cleaner to prevent spent emulsion contamination.

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.

Exol Lubricants advise the use of automated mixing systems. If mixing manually, always add the concentrate to the water with maximum agitation, if water is added to the concentrate, emulsions may prove unstable. Check emulsion strength using a calibrated refractometer