



APPLICATIONS

Eni Fresia ESB 10 is an EP cutting oil formulated with synthetic ester for a more effective reduction of friction between the tool and the workpiece.

It is free of chlorine and sulphur. A carefully selected additives deliver high detergent, anti-wear, anti-mist and anti-oxidant properties.

Eni Fresia ESB 10 is suitable for medium and severe cutting operations in particular for deep drilling, high-speed cutting operations, teeth gears grinding, production and sharpening of hard metal tools.

Recommended for machining of alloy steel and stainless steel, aluminum and its alloys, titanium and its alloys and yellow metals.

Suitable for minimal quantity lubrication.

CUSTOMER ADVANTAGES

- Very low tendency to form mist
- Improvement of the workpiece surface quality
- Increases tool life
- Suitable to replace mineral cutting oil with EP additives such as chlorine and sulfur in severe cutting operations
- High corrosion protection of the workpieces and the machine tool
- Biodegradability OECD 301B: > 60%
- WGK 1 Class.

SPECIFICATIONS - APPROVALS

- ISO 6743/7 MHE





CHARACTERISTICS

Properties	Method	Unit	Typical
Appearance		-	limpid
Density at 15°C	ASTM D 4052	kg/m ³	880
Viscosity at 40°C	ASTM D 445	mm ² /s	10
Flash point (COC)	ASTM D 92	°C	248
Pour point	ASTM D 97	°C	-45
Copper corrosion	ASTM D 130	-	1a

WARNINGS

- Do not mix the product with mineral cutting oil to avoid the decreasing of the product properties.
- In the case of topping up of different product, perform compatibility test.
- Further information on the product are available on the Material Safety Data Sheet.

