



APPLICATIONS

Eni Fresia ESB 35 is a multifunctional cutting oil formulated with synthetic ester for a more effective reduction of friction between the tool and the workpiece.

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

Eni Fresia ESB 35 is suitable for medium and severe cutting operations in particular for milling, turning, boring, tapping, gear cutting, shaving, slotting and broaching on alloy steel and stainless steel, on aluminium and its alloys, titanium and its alloys and yellow metals.

Suitable for sawing, punching, for medium-light stamping operations and 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
- Biodegradable cutting oil

SPECIFICATIONS & APPROVALS

- WGK 1
- ISO 6743/7 MHE





CHARACTERISTICS

Properties	Method	Unit of Measure	Typical
Appearance	-	-	Clear yellow
Density at 15°C	ASTM D 4052	kg/l	0.921
Viscosity at 40°C	ASTM D 4052	mm ² /s	35
Flash point (COC)	ASTM D 92	°C	245
Flash point P.M.	ASTM D 93	°C	230
Pour point	ASTM D 6892	°C	-6
Copper corrosion	ASTM D 130	-	1a

WARNINGS

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

