



Eni Fresia ESB 25

Eni Fresia ESB 25 is a multifunctional EP cutting oil of high performance formulated with synthetic esters that give to the product high lubricating properties. It is free of chlorine, sulphur and mineral oil.

Characteristics (typical figures):

Eni Fresia ESB 25	Test method	Unit	
Appearance			limpid yellow
Viscosity at 40°C	ASTM D 445	mm ² /s	25
Flashpoint	ASTM D 92	°C	234
Pourpoint	ASTM D 6892-03	°C	-24
Density at 15°C	ASTM D 4052	kg/l	0,903
Copper corrosion	ASTM D 130		1a
%Ester			> 90%

Properties and Performance:

Eni Fresia ESB 25 is formulated exclusively with synthetic esters. The choice to have a synthetic esters based formulation is to take a great advantage of their polarity and adhesiveness on metal surface in order to create a stable lubricating film. The presence of strong film of lubricant provides a reduction of friction, efficient removal of heat generated between the tool and workpiece and consequential reduction of smoke with improvement of the workpiece finishing.

Due to their inherent lubricity, the ester base oil allows to perform even severe cutting operations without the use of EP additives such as chlorine, sulphur and derivatives.

Eni Fresia ESB 25 ensures adequate cleaning and corrosion protection of the workpieces and the machine tool on which it operates.

The ester base oils used in **Eni Fresia ESB 25** make it biodegradable, the value of biodegradability according to OECD Method 301B, is > 60% p.

Applications:

Eni Fresia ESB 25 is a multifunctional EP neat cutting oil formulated for medium and severe cutting operations like: milling, turning, boring, gear cutting, shaving and slotting. The product is suitable for cutting and slicing with knife and for minimal lubrication.

Eni Fresia ESB 25 is recommended for machining of alloy steel and stainless steel, of aluminium and its alloys, of titanium and its alloys and of yellow metals.