



# Eni metalCut ERF 14

**Not water miscible cooling lubricant** for honing and spark erosion applications.

## Characteristics (typical figures):

metalCut ERF 14	Unit		Test method
Colour number		0	
Kin. Viscosity at 40°C	mm <sup>2</sup> /s	2,3	DIN 51 562
Density at 15°C	kg/m <sup>3</sup>	817	DIN 51 757
Flashpoint o. C.	°C	116	DIN ISO 2592
Copper corrosion	Corr.-grade	1A	ASTM D 130
Distillation range	°C	245 - 265	ASTM D 86

## Properties and Performance:

**Eni metalCut ERF 14** is a light, odourless, sulphur and chlorine free special distillate with additives for the improvement of the lubricity. Therefore the honing service time is prolonged and a high surface quality at the workpiece achieved. Due to the very low Viscosity Eni metalCut ERF 14 has high rinsing and cooling properties, the application in high-speed spindles is also possible due to the excellent properties.

## Applications:

**Eni metalCut ERF 14** is suitable as spark erosion fluid and as honing oil, whereat the latter application a very good removing performance at simultaneously low heating of the workpieces as well as low honing stone consumption has proven in the practice.

Further application fields are lapping and normal machining of steel and non-ferrous metals, whereat the non-ferrous metal processing there is no specking on the workpiece. Eni metalCut ERF 14 is formulated and designed concerning the Viscosity that it can be used as universal fluid for spark erosion.

## Information:

**Must not be used as fuel or heating material also not for the preparation of those!**

Observe the valid VDI Guidelines 3035 and 3397 (1 - 3) when using the product. To maintain the function of a cooling lubricant the product has to be stored frost free.

The product is a water hazardous liquid.

The BGR/GUV-R 143 - Operations with cooling lubricants - has to be observed for safe handling.

For specific technical questions please contact our technical department. Get information in reference to our training seminar about the subject cooling lubricants.