Product information

EcoSpark 105
Dielectric

Dielectric EcoSpark 105 is a blended aliphatic hydrocarbon fluid of high purity based on mineral oils for use in EDM machines. It was especially developed for use in applications where a minimum dielectric flashpoint of 100°C is required as a security against fire risks.

Dielectric EcoSpark 105 is made of several mineral distillations (hydrocrack oils) forming an oil of low viscosity, high dielectric strength and a very low aromatic content below 0,1 %vol. All components are carefully selected for purity, low toxicity, low odour and lack of irritation. Due to its high evaporation temperature of 235°C the gases produced as a by-product of EDMing are considerably reduced.

Dielectric EcoSpark 105 is an odourless and colourless fluid. It has excellent cooling and flushing properties because of its low viscosity of 3,3 mm²/s at 20°C.
Further, it has an excellent filterability through all types of EDM filter systems.
Thus it ensures an efficient sparking process, combining high stock removal rates with low electrode wear. This guarantees a wide operating range from finishing to heavy roughing using high generator output.

Technical facts

Density at +15 °C [g/cm³]	0,81	ASTM D 7042
Kin. viscosity at +20 °C [mm²/s]	3,3	ASTM D 7042
Kin. viscosity at +40 °C [mm²/s]	2,3	ASTM D 7042
Flashpoint [°C]	105	DIN EN ISO 2719
Aromatic content (Weight %)	<0,1	DIN 51 378

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oelheld GmbH innovative fluid technology
Ulmer Str. 135-139
70188 Stuttgart / Germany
Phone: +49 (0) 711 168 63-0
Fax: +49 (0) 711 168 63-40
hutec@oelheld.de
www.oelheld.de

Human-Technology
für Mensch, Natur
und Maschine
HUTEC