



TARMOND DIEL-02

EDM FLUID

Product Description:

Tarmond DIEL-02 is a premium dielectric fluid meeting the requirements for insulation and controlled dielectric discharge during electric discharge machining operations. It is designed for the finest, most delicate machining operations, particularly in small EDM units used for finishing operations where very close tolerances are important. It uses synthetic base fluid technology to suit spark erosion machines of all power ratings and sizes. It is a multipurpose dielectric fluid, designed to enable optimum rates of metal removal, together with low electrode wear, good surface finish, and fine tolerances. It exhibits a relatively high flash point that helps reduce the possibility of fire. The low viscosity of the fluid provides good circulation through the spark gap and more rapid removal and settling of metal fines. It has excellent oxidation stability, which helps reduce the formation of oxidation products that could alter the dielectric strength of the fluid. It exhibits a high dielectric strength, which provides insulation of the tool and workpiece and helps control electric discharge during the machining operation.

Applications:

It can be used for grinding cutting tools, as a low-viscosity spindle oil (e.g. for narrow fit spindles) and as magnetic particle inspection oil. It is also used in plunge or ram electrical discharge machining and glass grinding.

Benefits:

- ❖ Outstanding oxidation resistance, providing excellent cooling, flushing and filterability
- ❖ Low viscosity and odour with high purity
- ❖ High dielectric strength

Technical Data:

Tarmond DIEL-02	Test Method	
Colour	Visual	Clear
Density at 15 °C, gr/cm ³	ASTM D 1298	0.77
Viscosity at 40 °C, mm ² /s	ASTM D 445	2- 3
Flash Point, °C	ASTM D 92	165
Pour Point, °C	ASTM D 92	-25
Corrosion test	ASTM D 130	1a

Above values are the typical values of the products and may vary with each batch.