



Advanced Lubricants Technology

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## PRODUCT INFORMATION

### PERENNIAL EDM MEF-IV ( Synthetic Blended Heavy Duty Spark Erosion Fluids )

#### DESCRIPTION

PERENNIAL EDM MEF-IV is an excellent synthetic blended dielectric fluid which is specially designed for modern, advanced spark erosion machines. It is based on specially selected, highly refined and highest purity refined synthetic blended hydrocarbon distillate which has the ideal properties for a spark erosion fluid. It has proper controlled and high dielectric strength stability to serve as a spark conductor as well as an insulator, under high frequency electric spark. The fluid with an excellent heat transfer property is good coolant and flushing medium for disposal of small metal chips.

PERENNIAL EDM MEF-IV has low sludge and carbon forming tendencies, a necessary requirement to achieve fine surface finish, particularly for intricate and complicated work.

#### PROPERTIES

- Controlled dielectric strength to act as a good insulator as well as spark conductor between electrode and workplace under proper voltage variation
- Low viscosity to ensure fluid cover complete metal products
- High oxidation stability to provide long service life
- Excellent thermal properties for efficient cooling and heat transfer
- Low evaporation rate
- Low fluidity to allow for minimum metal chips to flush away through narrow spark gap

#### ADVANTAGES

- Non toxicity / No irritation showed at primary contact
- Minimal electrode wear, avoiding frequent replacement, cost saving
- Good dimensional accuracy / Excellent workpiece surface finish after machining
- Minimal mist and odour during process

#### TYPICAL PROPERTIES

Density @ 15 ° C	0.795 g/ml	ASTM D1298-85
Colour, ASTM	+30	ASTM D156
Sulphur content	< 1 ppm	ASTM D1266-92
Flash Point	135 ° C	ASTM D93-90
Freez. Point	< -18°C	ASTM D97
Boiling Point	255 °C	ASTM D86
Viscosity @ 40 ° C	3.00 Cst	ASTM D445-88
Aromatics	< 1 %	ASTM D2728

The above details is typical and does not constitute a contract in terms of properties