

# METAL WORK EDF-K2

## Synthetic Oil for High Speed Electric Discharge Machining

**METAL WORK EDF-K2** is synthetic oil for high speed electric discharge machining with superior processing performance, which indicates low evaporation loss and less color change. In addition to oxidation and thermal stability required for the electric discharge machining oil, **METAL WORK EDF-K2** has been developed as the oil to realize high-accuracy and high-efficiency machining with the consideration to the environment such as low odor and skin irritation.

### ● Special Features

#### 1. Excellent Machining Performance

**METAL WORK EDF-K2** is blended with the workability improving additive to improve the processing speed and characteristics in a wide range of machining area from roughing to finishing. Therefore, it can raise the productivity and the processing accuracy in comparison with a commercially available additive-free type machining oil.

#### 2. Improvement of the Work Environment

**METAL WORK EDF-K2** is formulated with base oil of synthetic hydrocarbon, which is low odor and less skin irritation, and antioxidant to improve oxidation and thermal stability. It can reduce the stickiness and coloring problem that often occur in the machining oil of high-speed type, to improve the working environment.

#### 3. Applicable to a wide range of processing

Since **METAL WORK EDF-K2** is designed to proper viscosity as a discharge machining oil, it can be applied to a wide range of processing such as precision micro-fabrication, deep product processing, high-speed roughing, through-shape processing and bottom with shape processing etc.

### ● Recommendation

**METAL WORK EDF-K2** has been recommended for electrical discharge machines of Mitsubishi Electric Corp.

### ● Containers

200 liter drums & 20 liter cans

### ● Typical properties of METAL WORK EDF-K2

Appearance		Transparent liquid
Color(ASTM)		L0.5
Density(15°C)	g/cm <sup>3</sup>	0.776
Kinematic viscosity(40°C)	mm <sup>2</sup> /s	2.2
Flash point(PM)	°C	83

Note: The typical properties are subjected to change without notice. (March. 2003)



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Base Oil, Additives
<b>Precautionary pictograms:</b>	
<b>Signal word:</b>	Danger
<b>Hazard Statement:</b>	Combustible liquid May be fatal if swallowed and enters airways
<b>Precautionary Statements:</b> <b>Prevention</b>	<ul style="list-style-type: none"><li>• Do not handle until all safety precautions have been read and understood.</li><li>• Wear protective gloves/protective clothing/eye protection/face protection.</li><li>• Do not allow the eyes to become exposed to the product. Do not swallow the product.</li><li>• Keep away from heat/sparks/open flames/hot surfaces – No smoking.</li><li>• Use explosion-proof electrical/ventilating/lighting/equipment.</li><li>• Ground/bond container and receiving equipment.</li><li>• Wash hands thoroughly after handling.</li><li>• Do not eat, drink or smoke when using this product.</li></ul>
<b>Response</b>	<ul style="list-style-type: none"><li>• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</li><li>• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li><li>• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.</li><li>• IF ON SKIN: Wash with plenty of soap and water.</li><li>• Do NOT induce vomiting.</li><li>• In case of fire: Use suitable extinguishing media for extinction.</li></ul>
<b>Storage</b>	<ul style="list-style-type: none"><li>• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.</li><li>• Containers that have been opened must be tightly sealed.</li><li>• Store locked up.</li></ul>
<b>Disposal</b>	<ul style="list-style-type: none"><li>• Dispose of contents/container in accordance with local/regional/national/international regulations.</li><li>• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.</li></ul>