

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 ³	0.776
Kinematic viscosity(40°C)	mm ² /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.

<p>! CAUTION</p> <p>Handling Precautions</p>	<ul style="list-style-type: none">● <u>Inflammation can occur if oil enters the eyes.</u> When handling this oil, wear <u>protective goggles</u> or take other measures to <u>prevent eye contact</u>.● <u>Inflammation can occur if oil comes into contact with skin.</u> When handling this oil, wear <u>protective gloves</u> or take other measures to <u>prevent skin contact</u>.● <u>The inhalation of mist may cause discomfort.</u> When handling this oil, wear a <u>respirator</u> or take other measures to <u>prevent mist inhalation</u>.● Do not drink this oil. (Swallowing this oil can cause diarrhea and nausea.)● <u>Keep out of reach of children.</u>● Read the Safety Data Sheet (SDS) for this product before using the product. Obtain the SDS from where you purchased the product.
<p>First Aid</p>	<ul style="list-style-type: none">● In case of eye contact, rinse eyes thoroughly with clean water and consult with a physician.● In case of skin contact, wash skin thoroughly with soap and water.● If mist is inhaled, move the person to a location with fresh air, wrap the person in a blanket, keep the person warm and quiet, and consult with a physician.● If this oil is swallowed, do not induce vomiting. Consult with a physician immediately.
<p>Disposal of Used Oil and Containers</p>	<ul style="list-style-type: none">● Do not apply pressure to empty containers. The containers may burst if pressure is applied.● Do not weld, heat, drill, or cut the containers. The remaining oil may ignite and the containers may explode.● Follow all applicable laws and regulations when disposing of used oil or containers. If you are unsure of the proper disposal methods, consult first with the seller of the oil.
<p>Storage Method</p>	<p>Seal the container tightly after use in order to prevent dirt, moisture, etc., from entering the oil. Store in a dark location. Avoid direct sunlight.</p>