



## **GLOC-EDM PTI**

### **DESCRIPTION**

### ***Product Data***

**GLOC EDM PTI OIL** is a high quality electrical discharge machining oil to be used as received. It is a premium dielectric discharge fluid meeting the requirements for insulation and controlled dielectric discharge during machining operations. This outstanding product exhibits excellent resistance to oxidation and is easily filtered. Particles quickly settle out due to the low viscosity of the product. With its relatively high flash point and non-corrosive traits this product is operator accepted.

### ***KEY PERFORMANCE BENEFITS***

***Accurate machining - good dielectric properties provide controlled discharge.***

***Improved working conditions – low volatility and mild odor.***

***High production throughout – excellent electrical properties, filterability and oxidation.***

***Long fluid life – high oxidation resistance minimizes the rate of fluid degradation.***

***Improved safety – The high flash point and low volatility minimize the risk of vapor ignition***

### ***TYPICAL PRODUCT APPLICATIONS***

**GLOC EDM PTI OIL** is recommended for use in:

- Dielectric fluid in finish-cut electrical discharge (spark erosion) machining operations.
- Electrical discharge machining in tool and die shop, and in the manufacture of electronics, extrusions, aircraft components, hardware tools, fasteners, silverware, cutlery, jewelry, appliances, valves and regulators.
- EDM operations where the spark discharge is fully immersed at all times. (Partial immersion involves fire/explosion hazards).
- Grinding fluid in glass grinding operations. Not for use in “wire” EDM operations where demonized water is the appropriate fluid.

**METALWORKING FLUIDS \* AIRCRAFT \* INDUSTRIAL \* AUTOMOTIVE**

## **GREAT LAKES OIL COMPANY, INC.**

3649 Lane Road Ext., Unit 305

Perry, Ohio 44081

P: 440.352.9050 F: 440.639.8010

USA Toll Free 1(800).352.9050

Web page: [www.greatlakesoil.com](http://www.greatlakesoil.com)

E-mail: [glocsales@greatlakesoil.com](mailto:glocsales@greatlakesoil.com)

## TYPICAL PHYSICAL AND CHEMICAL CHARACTERISTICS

Color	Fluro-Green
Appearance	Clear, Liquid
Odor	Characteristic
Flash Point, °F	220 °F
Gravity, API @ 60 °F	45.5
Specific Gravity @ 60 °F	0.7994
Density (LBS/GAL)	6.658
Viscosity @ 100 °F	35 SUS
Viscosity @ 40 °C	2.18 cSt
Dielectric Strength	30 KV
Aniline Point °F	175
KB Value	26.5
Boiling Point °F	430
Freeze Point °F	-15
Aromatic %	<1

To obtain samples please contact our customer service representative.

The outstanding physical characteristics of this product coupled with the cost / performance ratio justify looking at replacing your present EDM Oil.

### Storage/Handling/Disposability

No health or safety hazards exist when **GLOC-EDM PTI** metalworking fluids are stored, used and disposed of in accordance with instructions given on the Material Safety Data Sheet for this product.

Gloc- EDM PTI cf-2725