

DURAFILM EDM SYNPLUS 34

(Synthetic EDM Fluid)

DURAFILM EDM SYNPLUS 34 was developed in response to the EDM industries' requirements for a high quality EDM fluid that has the benefits of longer life, increased production rates, and improved safety for the operator and the working environment. Conventional mineral oil based EDM products break down, get thicker, emit odors, become more acidic and cause dermatitis requiring periodic changes. **DURAFILM EDM SYNPLUS 34** will not breakdown under high voltage and will not oxidize due to the high quality of the synthetic base stocks and additives used to manufacture this product. In addition **DURAFILM EDM SYNPLUS 34** will maintain its viscosity and will not irritate the operator's skin.

BENEFITS

- Excellent operator acceptance due to clean, clear and odorless appearance.
- Consistent viscosity allows improved finishes, rapid flushing and filterability.
- High dielectric strength increases removal rates.
- Burns cleaner and more efficiently with less electrode wear and sharper detail.

DURAFILM EDM SYNPLUS 34 is an elite EDM synthetic fluid for use in all areas of EDM and EDT operations.

Performance Specifications

Up to 20% increase in production
Reduced polishing time
Less electrode wear
Faster, more efficient removal
Increased filterability
Excellent flushing ability
Resists oxidation
Keeps machine cleaner
Increased fluid life
Retains viscosity

Safety Issues

High Flash Point
Very Low Evaporation Rate

Environmental Issues

No Foaming
Odorless
No dyes
Does not irritate skin

Health Issues

No Aromatics
No Sulfur
No Toxins

DURAFILM EDM SYNPLUS 34 (Synthetic EDM Fluid continued)

ISO SPECIFICATIONS

Test	Method	Results
Viscosity @ 20°C	DIN51-562	4.42 MM2/sec.
Viscosity @ 40°C	DIN51-562	2.86 MM2/sec.
Density	DIN51-757	0.7741g/mL@20C
Flash Point	DIN51-758	164°C (225°F)
Pour Point	DIN51-597	6°C (43°F)
Conductivity	DIN51-412	45.0 ps/M @ 23.7°C

ASTM SPECIFICATIONS

Viscosity SUS @ 100°F	ASTM D-2126	35
Flash Point °F	ASTM D-93	245
Pour Point °F	ASTM D-97	5
Dielectric Strength KVM		>49
Sulfur Content ppm	ASTM D-4294	<1
Odor		Nil
Evaporation Rate	ASTM D-972	Nil