Electric spark oil

Performance Overview

Maxtop Spark oil is mainly made from highly refined and hydrogen-refined high flash point, narrow fraction and low viscosity oils. As a liquid discharge medium, it plays the role of insulation, ionization elimination, cooling of high-temperature areas and removal of carbon slag in electrical discharge machining. Electrical spark oil of different viscosities and flash points can be generated according to the user's requirements. High-performance insulating medium oil specially designed for electrical discharge machining machines is refined from deeply refined mineral oil or synthetic oil, with the addition of antioxidants, corrosion inhibitors, etc.

Features

01

Low viscosity: Good fluidity, a viscosity of about 2.2 is more appropriate, which helps to effectively remove carbon slag.

02

High flash point: The flash point is generally between 80 and 130 degrees to improve safety.

03

Good insulation performance: Maintain appropriate insulation strength between tool electrode and workpiece.

04

Low volatility: strong chemical stability and extended service life.

05

Environmentally friendly: light odor, protects the environment.the environment.

06

Clear and Transparent: Clear in color, water-white and translucent, no foam, no corrosion.

Application Scenario

Electrical discharge machining oil is mainly applied in various electrical discharge machining machines and serves as the working fluid for electrical discharge machining. It is particularly suitable for occasions that require precise processing and high-quality surface treatment.

Performance indicators of spark oil

Project		Quality indicators
Appearance		Clear and transparent
Kinematic viscosity (40℃) (mm^2/s)		1.8~3.5
Density (20℃) kg/m3	not less than	790
Chroma, number	not less than	+30
Distillation range: initial distillation point, ℃	not less than	230
Final distillation point, ℃	not higher than	270
Flash point (closed cup), ℃	not less than	100
Aromatic content, PPM less than or equal to		20
Sulfur content, Ppm	not more than	2
Bromine value, mgBr/100g	not more than	0.1
Copper sheet corrosion (100℃, 3h) level,	no more than	1
Sulfur content, mg/kg less than or equal to		0.01

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