TOTAL ISOVOLTINE KA 7-4 Type I



High Voltage Insulating Oil

USES

 Transformers, switchgears, contact breakers, welding set and all high voltage electrical equipments.

PROPERTIES

- Excellent resistivity, power factor and dielectric strength.
- Suitable anti-oxidation and high thermal stability.
- Low viscosity ensuring satisfactory cooling.
- Excellent stability in operation and resistance to aging.
- Very low pour point

SPECIFICATION

- ◆ ASTM D 3487 Type I
- BS 148 Class IA
- KS C 2301
- JIS C 2320

• IEC 60296(T)

CHARACTERISTICS

Test items	Method	Unit	Typical Value
Density at 15℃	ASTM D-1298	g/cm ³	0.8496
Kinematic Viscosity at 40 ℃	ASTM D-445	(cSt)	11.11
at 100 ℃			2.76
Flash Point, PM	ASTM D-93	${\mathbb C}$	164
Pour Point	ASTM D-97	$^{\circ}$	-44.0
Neutralization Value	ASTM D-974	mgKOH/g	0.007
Water Content	ASTM D-1533	ppm	25 ^{b)}
Interfacial Tension at 25 $^{\circ}{\rm C}$	ASTM D-971	dynes/cm	42
Aniline Point	ASTM D 611	$^{\circ}$	81
Anti-oxidant Additives	ASTM D-1473	%	0.05
Corrosive Sulfur at 140 ℃, 19hrs	ASTM D-1275	-	Non-Corrosive
Breakdown Voltage, 2.5mm	ASTM D-877	kV	60
Volume Resistivity at 80 $^{\circ}\mathrm{C}$	ASTM D-1169	Ω·cm	1.5X10 ¹⁵
Dissipation Factor at 100 ℃, 40-60Hz	ASTM D-924	%	0.002
Oxidation Stability at 110 ℃, 164hrs	ASTM D-2440		
- Sludge		wt% by mass	0.003
- Neutralization Value		mgKOH/g	0.21
PCB Content	ASTM D-4059	ppm	Not detectable

Above characteristics are mean values given as an information.

