



IsoTec NE 350 Fluid properties

Property	Standard Test Methods		Requirement		IsoTec NE 350
	ASTM	ISO/IEC	ASTM D6871	IEC 62770	
Physical					
Colour	D1500		≤ 1.0		0.5
Flash Point PMCC (°C)	D93	ISO 2719		≥ 250	> 260
Flash Point COC (°C)	D92	ISO 2592	≥ 275		> 315
Fire Point (°C)	D92	ISO 2592	≥ 300	≥ 300	> 350
Pour Point (°C)	D97	ISO 3016	≤ -10	≤ -10	-31
Density at 20°C (g/cm3)		ISO 3675		≤ 1.0	0.92
Relative Density (specific gravity) (15°C/15°C)	D1298				0.92
Viscosity (mm2/sec)	D445	ISO 3104	≤ 0.96		
@100°C			≤ 15	≤ 15	8.3
@40°C			≤ 50	≤ 50	37
@0°C					230
Appearance	D1524		Bright and Clear		Bright and Clear
Visual examination		IEC 62770 4.2.1		Clear, free from water and suspended matter and sediment	Clear, free from water and suspended matter and sediment
Biodegradation - OECD 301				Readily Biodegradable	Readily Biodegradable
Electrical					
Dielectric Breakdown (kV)	D877		≥ 30		≥ 30
Dielectric Breakdown (kV)					
1 mm gap	D1816		≥ 20		32
2 mm gap	D1816		≥ 35		58
2.5 mm gap		IEC 60156		≥ 35	> 75
Gassing Tendency (µl/min)	D2300		≤ 0		-93.6
Power Factor at 25°C (%)	D924		≤ 0.2		≤ 0.20
Power Factor at 100°C (%)	D924		≤ 4.0		≤ 4.0
Dissipation Factor at 90°C (tan delta)		IEC 60247		≤ 0.05	< 0.03
Chemical					
Corrosive Sulfur	D1275 D1533	IEC 62535	Non-corrosive	Non-corrosive	Non-corrosive
Water Content (mg/kg)	D974 D4059	IEC 60814	≤ 200	≤ 200	50
Acid Number (mg KOH/g)	ASTM D	IEC 62021.3	≤ 0.06	≤ 0.06	≤ 0.04
PCB Content (mg/kg)	2440		Not detectable		Not detectable
Oxidation Stability (48hr)		IEC 61125C			
Total Acidity (mg KOH/g)		IEC 62021.3		≤ 0.6	< 0.1
Viscosity at 40°C (mm2/sec)		ISO 3104		≤ 30% over initial	8%
Dissipation Factor at 90°C (tan delta)		IEC 60247		≤ 0.5	< 0.1

The displayed typical values are not to be identified as acceptance values.

IsoTec NE 350 – made from renewable vegetable oil, readily biodegradable, offering fire safety and environmental protection as a natural ester.