



Date :

Ref :

شماره :

تاریخ :

Test Certificate For Uninhibited Transformer

Test Method : IEC 60296			
<u>Property</u>	<u>Test method</u>	<u>Limits</u>	<u>RESULT</u>
1 – Function			
Viscosity at 40° C	ISO 3104	-	11.93
Pour point	ISO 3016	Max. -40° C	-42
Water content	IEC 60814	Max.30 mg/kg ^a / 40 mg/kg ^b	10.5
Breakdown voltage	IEC 60156	Min. 30 kV / 70 kV ^c	71.5
Density at 20° C	ISO 3675 or ISO 12185	Max. 0,895 g/ml	0.858
DDFat 90 °C	IEC60247 or IEC 61620	Max. 0,005	0.0015
Interfacial tension	EN14210 or ASTM D971	---	min 37.1 mN/m
2 – Refining/stability			
Appearance	--	Clear, free from sediment and suspended matter	OK
Acidity	IEC 62021	Max. 0,01 mg KOH/g	0.006
Corrosive sulfur	DIN 51353	Not corrosive	Not corrosive
Antioxidant additive	IEC 60666	uninhibited oil: not detectable	Not detectable
3 – Performance			
Oxidation stability	IEC 61125(method C) Uninhibited oil: 164 h		
- Total acidity		Max. 1.2 mg KOH/g	0.981
- Sludge		Max. 0,8 %	0.684
DDFat 90 °C	IEC 60247	Max. 0,500	0.417
4 - Health, safety and environment (HSE)			
Flash point	ISO 2719	Min. 135°C	142
PCB content	IEC 61619	Not detectable	Not detectable

PREPARED BY :

APPROVED BY

