



Transformer Dil Λ

Description

The inhibited electrical insulating oil, TRANSFORMER OIL A, is produced from a severely hydrotreated naphthenic oil to meet the specification requirements defined in IEC 60296:2012, special applications.

Application

TRANSFORMER OIL A is suitable for use in high loads applications.

Operation Characteristics

- Rapid heat transfer properties.
- High oxidation stability.
- Extended oil life.
- Transformer protection.

Specifications, Approvals, Recommendations

IEC 60296:2012

Typical Physical Characteristics

TEST DESCRIPTION	TEST METHOD	SPECIFICATIONS VALUES		
Function		MIN	MAX	
Viscosity, mm ² /s at 40°C	ISO 3104		12.0	9.2
Viscosity, mm²/s at -30°C	ISO 3104		1800	924
Pour Point, °C	ISO 3016		-40	-65
Water Content, mg/kg	IEC 60814		30	13
Breakdown Voltage, kV, Before treatment	IEC 60156	30		57
Breakdown Voltage, kV, After treatment	IEC 60156	70		73
Density at 20°C, g/ml	ISO 12185		0.895	0.875
DDF at 90°C	IEC		0.005	0.001
Refining/Stability	60247			
Appearance	ERTM-2	PASS		PASS
Acidity, mg KOH/g	IEC 62021-1		0.01	<0.01
Interfacial Tension, mN/m	ASTM D 971	40		48
Corrosive Sulfur	DIN 51353	Noncorrosive		Noncorrosive
Corrosive Sulfur	ASTM D 1275, B	Noncorrosive		Noncorrosive
Corrosive Sulfur	IEC 62535	Noncorrosive		Noncorrosive
DBDS	IEC 62697-1	Not detected (<5mg/kg)		Not detected
Inhibitors of IEC 60666	IEC 60666	0.08	0.40	0.37
Metal Passivator Additives of IEC 60666	IEC 60666	Not detected (<0.05mg/kg)		Not detected
Other Additves		See ^a		





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Other Additves		See ^a		
Sulfur, wt%	ISO 14596		0.15	0.008
Furfural Content, mg/kg	IEC 61198		0.05	<0.05
Carbon Type Analysis, %	IR- Brandes			
Са				9
Cn				44
Ср				47
Performance				
Oxidation Stability at 120°C, 500 hours	IEC 61125, C			
Total Acidity, mg KOH/g			0.30	0.01
Sludge, %			0.05	0.02
DDF at 90°C			0.050	0.013
Health, Safety and Environment				
Flash Point, PMCC, °C	ISO 2719	135		141
PCA Content, %	BS 2000 Part 346		3	্ব
PCB Content	IEC 61619	Not detected		Not detected

These are typical values. Small variation should be expected for future productions / blendings

Health, Safety and Environmental Protection

It is unlikely to cause any significant problem to the health or safety of the user when used properly, according to the typical handling of lubricating and usual personal hygiene practices. The used lubricants must be recycled in accordance with applicable legislation and placed in approved collection points. Do not discharge into drains, soil or water / sea. Always follow the instructions of the safety data sheet.