

Sunrise Petroleum FZC

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Products Specification

Transformer Oils

IEC-60296 Specifications

CHARACTERISTICS	TEST METHOD	IEC-60296	
		MIN	MAX
(A)PHYSICAL PROPERTIES			
Kinematic Viscosity, mm ² /sec			
at 40 °C	ISO 3104		12
at -30 °C	ISO 3104		1800
Flash Point, °C (PMCC)	ISO 2719	135	
Pour Point, °C	ISO 3016		-40
Appearance	--	Clear; free from Sediment & suspended matter	
Density at 20 °C g/ml	ISO 3675/ISO 12185		0.895
Density at 29.5 °C g/ml	ISO 3675/ISO 12185		0.895
Interfacial Tension mN/m at 25 °C, mN/m	ISO 6295	40	
(B)ELECTRICAL PROPERTIES			
Breakdown voltage	IEC 60156		
As delivered, KV		30	
After treatment, KV		70	
Dielectric Dissipation Factor at 90 °C	IEC60247/IEC 61620		0.005
(C)CHEMICAL PROPERTIES			
Acidity, mg KOH/g	IEC 62021-1		0.01
Corrosive Sulphur	DIN 51353	Non-Corrosive	
Water Content, mg/kg	IEC 60814		30
Anti-oxidant additives	IEC 60666	Not Detectable	
Oxidation stability:	IEC 61125(Meth.C)		
a) Total acidity mgKOH/g			1.2
b) Sludge %by mass			0.8
c) D.D. Factor @90 °C	IEC 60247		0.5
PCB. Content	IEC 61619	Not Detectable	
PCA. Content ,%	BS 2000 Part346		3.0
2-Furfural Content, mg/kg	IEC 61198		0.1

IS-335 Specifications

CHARACTERISTICS	TEST METHOD	MIN	MAX
PHYSICAL PROPERTIES			
APPEARANCE	A representative sample of oil shall be examined in a 100 mm thick layer at 27 °C	The oil shall be clear transparent & free from suspended matter/sediments	
Density@29.5 °C g/cm ³	IS :1448(P-16)-1990		0.89
Kinematic Viscosity@27 °C, cST.	IS:1448(P-25)-1976		27
Interfacial Tension @27 °C, N/M	IS:6104-1971	0.04	
Flash Point, °C (PMCC)	IS:1448(P-21)-1992	140	
Pour Point, °C	IS:1448(P-10)1970		-6
Water content , PPM	IS:13567-1992		50