

# TRANSFORMER OIL NGX

Transformer Oil NGX is an inhibited insulating oil, which is made to be used in electric transformers, switchgears and in cables as an insulating, oil duct and heat transfer medium. It is formulated with highly refined mineral & inhibited naphthenic base oils and does not contain poly-chlorinated biphenyls (PCBs).

## BENEFITS

- High dielectric strength.
- Very low pour point.
- Free from acids and corrosive Sulphur.
- Compatible with transformer construction material.

## PERFORMANCE LEVEL

IEC 60296 (2012)

IEC 60465 (latest)

BS 148 (1984)

## APPLICATIONS

Transformer Oil NGX conforms to B.S. 148/1984 and IEC designated specification and can be used as an insulating, oil duct and cooling medium where oil of high thermal and oxidation stability is required. It is also suitable where good gas absorbing properties are necessary like transformer oil immersed switchgear, circuit breakers etc. Transformer Oil also meets class I (B) and class II (C) of earlier BS 148 and IEC 296 & 465 specification.

*Information and figures given here are typical of current production and conform to specification, minor variations may occur.*



## PRODUCT CHARACTERISTICS

Property	Units	Value	Test Method
Appearance	-	Clear, free from sediments	Visual
Specific Gravity @ 15 °C	-	0.895	ASTM D-4052
Viscosity @ 40 °C	mm <sup>2</sup> /s	8.9	ASTM D-445
@ -30 °C	mm <sup>2</sup> /s	1080	ASTM D-445
Flash Point, PMCC	°C	146	ASTM D-93
Pour Point	°C	-63	ASTM D-97
Acidity	mg KOH/g	< 0.01	IEC 62021
Corrosive Sulfur	-	Non-corrosive	ASTM D1275B
Sulfur content	% wt.	0.01	ISO 14596
Aromatic content	% wt.	10	IEC 60590
Antioxidant Phenols	% wt.	0.38	IEC 60666
Dielectric Dissipation Factor	At 90 °C	< 0.001	IEC 247
Interfacial Tension	mN/m	50	ISO 6295
Dielectric Strength: (Break Down Voltage)	Before treatment, KV	40-60	IEC 156
	After treatment, KV	> 70	IEC 296
Oxidation Stability @ 120 °C			
• Neutralization value	mg KOH/g	0.03	IEC 61125 C
• Sludge DDF/ 90 °C	% wt.	< 0.02	
Water Content	Ppm	< 20	ASTM D-1533
PCA Content, %	3	< 2.0	BS2000 part 346
Product Code		548042	

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