



Hyrax Hypertrans Transformer Oil (IEC 60296: 2012) –Edition 4

Product Description:

Hyrax Hypertrans transformer oil is a premium uninhibited mineral electrical insulating oil made from severely hydrotreated wax-free naphthenic oil which is good as a dielectric and coolant. It has very good low temperature fluidity, high flash point and chemical stability.

Features and Benefits:

Hyrax Hypertrans is manufactured from carefully selected naphthenic base stock that provides cooling, insulating, arc quenching and cleaning properties while meeting the requirements defined in IEC 60296:2012.

Its inherent cooling, chemical stability and high sludge solubilizing effects provides excellent performance in transformers, switchgears, capacitors and other liquid filled electrical equipments. It features:

- Excellent impulse strength
- Excellent oxidation stability
- Low dielectric dissipation factor (power factor)
- Low electrostatic charging tendency
- Non carcinogenic
- Non corrosive sulphur
- PCB and DBDS free

Specification

Hyrax Hypertrans transformer oil meets or exceeds the following specifications:

- IEC 60296 : 2012- Edition 4

Packages Sizes

- Available in bulk and 209L Steel Drums

Supply is also tailored to meet customers' requirement

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for applications referred to above and the recommendations provided in the Safety Data Sheet (SDS) are followed. The SDS is available upon request through our sales contact office. This product should not be used for purpose other than the applications referred to above. If disposing of used product, take care to protect the environment, follow the local rules and regulations of your local Authority.

Hyrax Oil Sdn Bhd

A-8-1, Megan Avenue II, 12 Jalan Yap Kwan Seng, 50450 Kuala Lumpur. Malaysia

Tel: 60-3-2163 5893 | Fax: 60-3- 2164 6577

Web: www.hyraxoil.com

Enquiry: hyrax@hyraxoil.com



Product Information

Characteristics

PROPERTY	TEST METHOD	IEC 60296:2012 REQUIREMENTS		TYPICAL VALUES
		Min	Max	
Function				
Viscosity, cSt at 40 °C	ISO 3104		12	9.06
Viscosity, cSt at -30° C	ISO 3104		1800	885
Pour Point, °C	ISO 3016		-40	-51
Water Content, PPM	IEC 60814		30	<10
Breakdown Voltage , kV	IEC 60156	30 / 70**		70
Density at 20°C, g/ml	ISO 3675		0.895	0.893
DDF at 90°C	IEC 60247		0.005	<0.001
Refining /Stability				
Appearance	Visual	Clear & Bright		Clear & Bright
Acidity, mgKOH/g	IEC 6201-1 /2		0.01	<0.01
Interfacial Tension, dynes /cm	ASTM D 971	No general requirement		45
Total Sulphur Content, mg/kg	IP 373	No general requirement		<300
Corrosive Sulphur	DIN 51353	Non Corrosive		Not Corrosive
Potentially Corrosive Sulphur	IEC 62535	Non Corrosive		Not Corrosive
DBDS, mg/kg	IEC 62697-1	Not Detectable (<5mg/kg)		Not Detectable
Inhibitors of IEC 60666, mg/kg	IEC 60666	Not Detectable (<0.01%)		Not Detectable
Metal Passivator Additives of IEC 60666, mg/kg	IEC 60666	Not Detectable (<5mg/kg)		Not Detectable
2-Furfural Content, mg/kg	IEC 61198	Not Detectable (<0.05mg/kg)		Not Detectable
Other Additive		See ^a		
Performance				
Oxidation Stability at 120°C, 164 hrs	IEC 61125 C			
Total Acidity, mg KOH/g			1.2	0.8
Sludge, %			0.8	0.21
DDF at 90°C			0.5	0.23
Health, Safety and Environment (HSE)				
Flash Point, °C	ISO 2719	135		146
PCA Content, %	IP 346		3	2.32
PCB Content, mg/kg	IEC 61619	Not Detectable (<2mg/kg)		Not Detectable

Remark :

** 30 kV - Before Treatment / 70 kV- After Treatment

^a As per IEC 60296:2012, this product contains no undeclared additives

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Our Safety Data Sheet is prepared in accordance with **Globally Harmonized System** for Classification and Labelling of Chemicals (GHS) as recommended by the Industry Code of Practice on Chemical Classification and Hazard Communication 2013 (ICOP)- Section 37 of Occupational Safety and Health Act 1994 (OSHA 1994).

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