



# Transformer & Electrical Oils

## hyrax® Hypertrans HR



### Note:

All information supplied by or on behalf of Hyrax Oil in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by rigorous laboratory work and research and believed to be reliable. Typical test data are average values only. Minor variations to typical properties not affecting the performance of the product are to be expected in normal manufacturing circumstances.

## Description

**Hyrax Hypertrans HR** transformer oil is a premium inhibited mineral insulating oil made from a 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.

## Performance

- IEC 60296:2012
- ASTM D1275, Method B
- DIN 51353
- IEC 62535

## Benefits

**Hyrax Hypertrans HR** is specially manufactured from carefully selected naphthenic base stock that provides cooling, insulating and, arc quenching properties while meeting all the requirements defined in the latest edition of 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 equipment. It features:

- Excellent impulse strength
- Excellent oxidation stability
- Low static charging tendency
- Low dissipation power factor (power factor)
- Non carcinogenic & PCB free

## Typical Characteristics

Properties	Method	Min. Spec	Max. Spec	Values
<b>Function</b>				
Viscosity, cSt at 40°C	ISO 3104		12.0	9.84
Viscosity, cSt at -30°C	ISO 3104		1,800	840
Pour Point, °C	ISO 3016		-40	-45
Water Content, PPM	IEC 60814		30 / 40*	20
Breakdown Voltage, kV	IEC 60156	30 / 70**		60
Density at 20°C, g/ml	ISO 12185		0.895	0.867
DDF at 90°C	IEC 60247		0.005	<0.0002
<b>Refining / Stability</b>				
Appearance	Visual		Clear & Bright	Clear & Bright
Acidity, mgKOH/g	IEC 62021-1		0.01	0.005
Interfacial Tension, dynes/cm	IEC 62961		No general requirement	45
Corrosive Sulphur	DIN 51353		Non Corrosive	Non Corrosive
Potentially Corrosive Sulphur	IEC 62535		Non Corrosive	Non Corrosive
DBDS	IEC 62697-1		Not Detectable (<5 mg/kg)	Not Detectable
Inhibitor of IEC 60666, wt %	IEC 60666	0.08	0.4	<0.4
Metal Passivator Additives mg/kg	IEC 60666		Not Detectable (<0.05 mg/kg)	Not Detectable
2-Furfural Content, mg/kg	IEC 61198		Not Detectable (<0.05 mg/kg)	<0.1
<b>Performance</b>				
Oxidation Stability at 120°C, 500 hrs	IEC 61125 C			
Total Acidity, mg KOH/g			0.3	<0.3
Sludge, %			0.05	<0.05
DDF at 90°C			0.05	<0.05
<b>Health, Safety and Environment (HSE)</b>				
Flash Point, °C	ISO 2719	>135		>145
PCA Content, Wt %	IP 346		3	<3
PCB Content, mg/kg	IEC 61619		Not Detectable	Not Detectable

Note: 30 / 40 \* – 30 PPM for Bulk Delivery / 40 PPM for Drum Delivery  
30 / 70 \*\* – 30 kV for untreated / 70 kV for treated