

### Transformer Oil - Product Data Sheet 9

#### eNZoil CB Transformer Oil – Uninhibited TBRU

**Product Specification** IEC 60296 Ed5:2020, BS148 : 2009, AS 1767, TP PS 54 01 Issue 7 - Type B

**Blended from Ergon Hyvolt 1 and GC Regen to meet IEC 60296**

			IEC 60296 Ed5:2020		
	Units	Method	Typical	min	max
Density @20°C	g/ml	ISO 12185	0.871		0.895
Closed Flash point (PMCC)	°C	ISO 2719	147	135	
Kinematic Viscosity @ 40°C	cSt	ISO 3104	10.15		12
Kinematic Viscosity @ 100°C	cSt	ISO 3104	2.6		3
Pour Point	°C	ISO 3016	-49		-40
Acidity	mg	IEC 62021-1	<0.01		0.01
Water Content	KOH/g				
Bulk Delivery	ppm	IEC 6018148	<10		30
Drum Delivery	ppm	IEC 6018148	<20		40
Oxidation Stability					
Uninhibited	-Sludge	% mass	IEC 61125 C	0.25	0.8
(164 h)	- Acidity	mgKOH/g	IEC 61125 C	0.65	1.2
Breakdown Voltage					
-Batch Result	kV/CM	IEC 60156	80	30	
- Delivered result	kV/CM	IEC 60156	>70	30	
Dielectric dissipation factor					
- @ 20°C - 50HZ		IEC 60156	0.0002		
- @ 90°C - 50HZ		IEC 60156	0.0004		0.005
Resistivity					
- @ 20°C	G ohm m	BS 5737	15000		
- @ 90°C	G ohm m	BS 5737	590		
Interfacial tension @ 25°C	dyne/cm	ISO 6295	45		
Corrosive Sulphur		DIN 51353	Non corrosive		Non corrosive
Potentially Corrosive Sulphur		IEC 62535	Non corrosive		Non corrosive
DBDS		IEC62697-1	<5mg/Kg		<5mg/Kg
Antioxidant Content (Only DBPC)	% w/e	IEC 60666	ND	ND	0.01
Appearance			clear & bright		
Carbon Type					
-Cn			46.0		
-Cp			44.0		
-Ca			10.0		
Total PCB content	µg/g	IEC 61619	Not detectable		<2
Total Furans	µg/g	IEC 61198	<1		<1
Polycyclic Aromatics	% mass	IP 345	<3		<3

**As per IEC 60296 Ed5:2020 Article 5.4D, this product contains no undeclared additive**

**Revised : 1 August 2022**