



## Perfecto™ TR UN

Transformer Oil

### Description

Castrol Perfecto™ TR UN (Previously called Uninhibited Transformer Oil) is a pure mineral hydrocarbon oil, specially refined and blended from selected crudes.

It is an uninhibited product, optimised for high performance to meet the stringent requirements of the International Standard IEC 60296, Edition 4.0, 2012 02.

### Application

Designed for use as a transformer, switchgear and circuit breaker oil which conforms to IEC 60296:2012.

### Advantages

High dielectric strength and low power loss.

High oxidation resistance.

Low sludge formation.

Excellent cooling properties.

High purity and flash point.

## Typical Characteristics

Name	Method	Units	Perfecto TR UN
Density @ 20°C / 68°F	ASTM D4052 / ISO 12185	g/ml	0.881
Kinematic Viscosity @ -15°C	ASTM D445 / ISO 3104	mm <sup>2</sup> /s	400
Kinematic Viscosity @ 40°C / 104°F	ASTM D445 / ISO 3104	mm <sup>2</sup> /s	10.3
Pour Point	ASTM D97 / ISO 3016	°C/°F	-62
Flash Point - closed cup method	ASTM D93 / ISO 2719	°C/°F	147
Neutralisation Value	IEC 62021-1	mgKOH/g	0.01
Corrosive Sulphur	IEC 62535	-	non-corrosive
Polycyclic Aromatics Mass	BS 2000 part 346	%	< 3
PCB Content	IEC 61619	ppm	Not detected
Water Content: Bulk, Drums	IEC 60814	mg/kg	< 15, < 25
Oxidation Stability - EP oils (120°C@ 164 hrs )	ASTM D2893 / ISO 4263-4	-	-
- Acidity after oxidation		mgKOH/g	0.24
- Sludge Value		% weight	0.1
Dielectric Dissipation Factor at 90°C	IEC 60247	-	0.001
Breakdown Voltage on Delivery	IEC 156	KV	>40

Subject to usual manufacturing tolerances.

## Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C exposed to hot sun or freezing conditions.

**This product was previously called Uninhibited Transformer Oil. The name was changed in 2015.**

Perfecto™ TR UN  
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