



# TECHNICAL DATA

## GB TRANSFORMER OIL

An oil for transformers and other electrical equipment

## APPLICATIONS

GB TRANSFORMER OIL has been specially refined and blended from selected crude oils for use in oil-filled transformers, switch-gear contacts, welding sets and high voltage electrical equipment.

## PERFORMANCE FEATURES

GB TRANSFORMER OIL is suitable for use in oil-filled transformers and other electrical equipment and offers the following features:

- High oxidation-resistance
- Low sludge-formation
- Low pour point
- High di-electric (insulating) properties
- Excellent heat-transfer to aid cooling

## PERFORMANCE DETAILS

GB TRANSFORMER OIL may be used where the following specifications are required:

BS 148:98 Class I and II

IEC 60296 (03) general specifications

ASTM D3487 type I

AS 1767.1-1999

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## **GB LUBRICANTS**

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A division of Goodall Bates & Todd Ltd



Q 06093  
ISO 9001



EMS 72776  
ISO 14001



OHS 88475  
OHSAS 18001

# GB LUBRICANTS

**CHARACTERISTICS**

TEST	UNIT	METHOD	TYPICAL PHYSICAL CHARACTERISTICS
Appearance	-	IEC 296	Clear and free from sediment
Density @ 20°C	kg/m <sup>3</sup>	ISO 12185	887
Viscosity @ 40°C	mm <sup>2</sup> /s	ISO 3104	9.1
Viscosity @ -30°C	mm <sup>2</sup> /s	ISO 3104	1200
Flash Point, PM	°C	BS EN 22719	148
Pour Point	°C	BS 2000.15	-57
Neutralisation value	mg KOH/g	BS 2000.1	<0.01
Corrosive Sulphur	-	BS 5680	Non corrosive
Total PCB content	mg/kg	BS EN 61619	Not detectable
<b>ELECTRICAL</b>			
Dielectric Dissipation Factor @ 90°C	-	BS 5737	<0.001
Interfacial Tension	mN/m	ISO 6295	49
Breakdown Voltage – as delivered	kV	BS EN 60156	40-60
<b>OXIDATION STABILITY</b>			
At 120°C 164h	-	BS EN 1125 C	-
Total Acidity	mg KOH/g	-	0.24
Sludge	Wt%	-	0.08
<b>GASSING TENDENCY</b>			
Hydrogen	mm <sup>3</sup> /min	BS 5797 A	<+5

**STORAGE AND HANDLING**

GB TRANSFORMER OIL should be stored indoors at ambient temperatures to avoid the risk of moisture and dust ingress. If it is not, the catalytic influence can increase the formation of sludges and acids, whilst affecting the di-electric strength of the product.

**HEALTH, SAFETY AND THE ENVIRONMENT**

GB TRANSFORMER OIL is not classified as hazardous under current UK Health & Safety and Environmental Legislation when used in the application for which it is intended.

For guidance on storage and handling of all lubricants and related products, GB Lubricants recommend the Environment Agency, [www.environment-agency.gov.uk](http://www.environment-agency.gov.uk), as an excellent source of advice.

If you have any queries, please do not hesitate to contact either your local Technical Sales Representative or our Technical Department.

The Company policy is to ensure that a range of products is supplied which complies with the latest specifications and codes within the relevant industry. As part of this development process, we therefore reserve the right to amend formulations and specifications, without prior notice.