



TECHNICAL DATA

GB PREMIUM UNIBIO® SE 46

APPLICATIONS

GB PREMIUM UNIBIO® SE 46 is a synthetic biodegradable hydraulic fluid, developed using specially selected additives and synthetic esters, for use in hydraulic plant and equipment operating under severe mechanical conditions and high operating temperatures. Developed to replace mineral oils in environmentally sensitive applications, it can be used in a wide variety of fixed and mobile plant applications, such as forestry, water management, inland water ways, dockyards, agriculture, construction, quarrying, refuse collection, landfill, water treatment, road building, railroads and mining.

PERFORMANCE FEATURES

GB PREMIUM UNIBIO® SE 46 has been formulated to meet the current technical and environmental requirements of today's hydraulic equipment and offers the following features:

- Full biodegradability according to all major standards
- A product which is free of genetically modified ingredients
- Synthetic-ester, ashless technology
- Based on renewable resources
- Good anti-wear performance
- Outstanding oxidation and thermal stability compared to vegetable-oil-based products
- Good corrosion protection
- Excellent demulsification properties
- Excellent low temperature flow properties and start up performance
- Low foaming
- Compatibility with mineral oils, their seals and elastomers

COMPATIBILITY

Ideally, GB PREMIUM UNIBIO® SE 46 should not be contaminated with other oils or water. Whilst contamination with other oils may not affect the equipment, it will reduce the biodegradability and non-toxicity of the oil and should therefore be avoided. On contact with water, the product will commence decomposition; hence it is necessary to ensure that water contamination is kept below 0.1% during storage and operation.

PERFORMANCE DETAILS

GB PREMIUM UNIBIO® SE 46 is a HEES-type fluid and may be used where the following specification is required:

ISO 15380

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Integrated Management System
PAS 99 IMR 560337
ISO 9001
ISO 14001
OHSAS 18001

GB LUBRICANTS

CHARACTERISTICS

TEST	UNIT	METHOD	TYPICAL PHYSICAL CHARACTERISTICS
ISO			46
Appearance	-	-	Pale yellow liquid
Density @ 15°C	kg/m ³	IP 160	921
Kinematic Viscosity @ 40°C	cSt	IP 71	42.9
Kinematic Viscosity @ 100°C	cSt	IP 71	8.7
Viscosity Index	-	IP 226	188
Biodegradability	%	OECD 301B	>85
FZG, failure load stage	-	DIN 51354	12
Flash Point PMCC	°C	IP 34	200
Pour Point	°C	IP 15	-39

STORAGE AND HANDLING

GB PREMIUM UNIBIO® SE 46 should be stored under cover to avoid water collecting in the rim of upturned barrels. Barrel bungs should be tightly sealed to avoid moisture contamination as, by its nature, this product will degrade in the presence of water.

Further information on GB PREMIUM UNIBIO® SE 46 can be obtained by referring to the corresponding Safety Data Sheet.

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 without prior notice.