



TECHNICAL DATA

GB PREMIUM UNIBIO® SSE 46

APPLICATIONS

GB PREMIUM UNIBIO® SSE 46 is a top-tier biodegradable hydraulic fluid that has been developed using fully saturated synthetic esters and specially selected additives, 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 waterways, dockyards, agriculture, construction, quarrying, refuse collection, landfill, water treatment, road building, railroads and mining.

PERFORMANCE FEATURES

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

- Full biodegradability according to all major standards
- A product which is free of genetically modified ingredients
- Synthetic saturated ester, ashless technology
- Good anti-wear performance
- Outstanding oxidation and thermal stability
- Good corrosion protection
- Excellent demulsification properties
- Superior lubrication and performance at high operating temperatures
- Excellent low temperature flow properties and start up performance
- Low foaming
- Compatibility with mineral oils, their seals and elastomers
- Extended operational life

COMPATIBILITY

Ideally, GB PREMIUM UNIBIO® SSE 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.

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

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PERFORMANCE DETAILS

GB PREMIUM UNIBIO® SSE 46 can be used where an ISO 15380 or VDMA 24568 HEES fluid is specified.

CHARACTERISTICS

TEST	UNIT	METHOD	TYPICAL PHYSICAL CHARACTERISTICS
ISO			46
Appearance	-	-	Pale yellow liquid
Density @ 15.6°C	kg/m ³	IP 160	901
Kinematic Viscosity @ 40°C	cSt	IP 71	45.3
Kinematic Viscosity @ 100°C	cSt	IP 71	7.79
Viscosity Index	-	IP 226	142
Biodegradability	%	OECD 301B	>80
FZG, failure load stage	-	DIN 51354	11
Flash Point COC	°C	IP 36	284
Pour Point	°C	IP 15	-48
Dry TOST Oxidation Stability	hours	ASTM D943	>5000
Demulsibility @ 54°C	-	ASTM D1401	40-40-0 (25 mins)
Air Release @ 50°C	mins	ASTM D3427	3

STORAGE AND HANDLING

GB PREMIUM UNIBIO® SSE 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.

HEALTH, SAFETY AND THE ENVIRONMENT

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

For guidance on storage and handling of all lubricants and related products, GB Lubricants recommend the Environment Agency, 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.