



TECHNICAL DATA

GB UNIGEAR® INDUSTRIAL SYNTH RANGE

APPLICATIONS

GB UNIGEAR® INDUSTRIAL SYNTH is a range of Polyalkylene Glycol (PAG) based synthetic lubricants developed for the lubrication of calenders, bevel, spiral bevel, helical, enclosed spur and worm gear units.

PERFORMANCE FEATURES

The GB UNIGEAR® INDUSTRIAL SYNTH RANGE offers the following features:

- Thermally stable operation at temperatures in excess of 200°C
- A product free of chlorine, sulphur and lead based materials
- Homogeneous from below the pour point to temperatures in excess of 250°C
- An anticipated service lifetime in excess of 10,000 hours at 100°C in industrial enclosed gear units

MATERIALS COMPATIBILITY

Seal types of NBR (nitrile rubber), fluoro-silicone or vinyl-methyl polysiloxane (Q) are recommended, especially in high temperature applications.

The GB UNIGEAR® INDUSTRIAL SYNTH RANGE should not be used with polyurethane-based elastomers, leather, cork, asbestos, paper or board.

Ordinary paints will soften in the presence of the GB UNIGEAR® INDUSTRIAL SYNTH RANGE and, as such, internal surfaces of gear units should not be painted. If painted, then a two-pack epoxy-type product should be used.

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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

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FLUSHING PROCEDURE

The GB UNIGEAR® INDUSTRIAL SYNTH RANGE is not miscible with mineral oil or other glycol-based lubricants. When changing from other products, the unit should be run to warm the existing fluid, then drained and cleaned of any sludge. Flush with a minimum volume of the appropriate GB UNIGEAR® INDUSTRIAL SYNTH RANGE under no load until the fluid is warm, then drain and repeat if necessary. Fill the gear unit and inspect after one or two days to ensure that the lubricant is free from contaminants.

CHARACTERISTICS

TEST	UNIT	METHOD	TYPICAL PHYSICAL CHARACTERISTICS			
			150	220	320	460
ISO Appearance	-	-	Pale yellow fluid	Pale yellow fluid	Pale yellow fluid	Pale yellow fluid
Density @ 15°C	kg/m ³	IP 160	1000	1001	1002	1005
Kinematic Viscosity @ 40°C	cSt	IP 71	137	221	329	433
Kinematic Viscosity @ 100°C	cSt	IP 71	22.7	31.8	44.8	63.7
Viscosity Index	-	IP 226	195	177	196	220
Flash Point	°C	IP 34	191	231	225	225
Pour Point	°C	IP 15	-30	-30	-30	-28

STORAGE AND HANDLING

The GB UNIGEAR® INDUSTRIAL SYNTH RANGE should be stored under cover to avoid water collecting in the rim of upturned barrels.

HEALTH, SAFETY AND THE ENVIRONMENT

The GB UNIGEAR® INDUSTRIAL SYNTH RANGE is not classified as hazardous (apart from the ISO 150 grade) 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, 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.