



TECHNICAL DATA

GB UNIGEAR® SHC RANGE

APPLICATIONS

The GB UNIGEAR® SHC RANGE has been developed as a premium range of synthetic gear and bearing oils. It is formulated on polyalpha-olefin base fluids and specially selected extreme pressure additives, to give excellent performance in heavily loaded or shock-loaded gears and bearings, at both high and low temperatures.

PERFORMANCE FEATURES

The GB UNIGEAR® SHC RANGE offers the following features:

- Consistently strong micro-pitting performance
- Clean gear performance under conditions of high temperature and oxidation
- Excellent phosphorous retention, ensuring extended wear protection
- Low chlorine content
- Extended corrosion and foam performance
- Good compatibility with mineral lubricants and related paints, seals etc
- Wide operating temperature range from -40°C to +180° C
- Long service life
- Reduced bearing and tooth wear

PERFORMANCE DETAILS

The GB UNIGEAR® SHC RANGE may be used where the following specifications are required:

US Steel 224	Flender AG approved FZG micro-pitting performance (ISOs 220-680)
AGMA 9005-E02	David Brown S1.53.101
DIN 51517 part 3	Cincinnati Machine P-74

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GB LUBRICANTS

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Q 06093
ISO 9001



EMS 72776
ISO 14001



OHS 88475
OHSAS 18001

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CHARACTERISTICS

TEST	UNIT	METHOD	TYPICAL PHYSICAL CHARACTERISTICS		
			68	150	220
ISO					
Appearance	-	Visual	Pale amber liquid	Pale amber liquid	Pale amber liquid
Density @ 15°C	kg/m ³	IP 160	855	861	864
Kinematic Viscosity @ 40°C	cSt	IP 71	69.2	155.6	215.7
Kinematic Viscosity @ 100°C	cSt	IP 71	10.9	20.0	26.1
Viscosity Index	-	IP 226	148	149	154
Flash Point	°C	IP 34	193	193	187
FZG (A/16.6/90)	-	DIN 51354 part 2	>12	>12	>12

TEST	UNIT	METHOD	TYPICAL PHYSICAL CHARACTERISTICS		
			320	460	680
ISO					
Appearance	-	Visual	Pale amber liquid	Pale amber liquid	Pale amber liquid
Density @ 15°C	kg/m ³	IP 160	866	867	868
Kinematic Viscosity @ 40°C	cSt	IP 71	330.3	483.1	732.1
Kinematic Viscosity @ 100°C	cSt	IP 71	36.0	49.1	68.1
Viscosity Index	-	IP 226	155	161	166
Flash Point	°C	IP 34	188	188	191
FZG (A/16.6/90)	-	DIN 51354 part 2	>12	>12	>12

STORAGE AND HANDLING

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

HEALTH AND SAFETY AND THE ENVIRONMENT

The GB UNIGEAR® SHC RANGE 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, 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.