



TECHNICAL DATA

GB GEAR OIL EP RANGE

A range of premium industrial extreme pressure gear oils

APPLICATIONS

The GB GEAR OIL EP RANGE has been developed using the highest quality mineral base oils and enhanced extreme-pressure additives, to provide superior performance in the increasingly severe operating conditions of industrial, agricultural and plant applications.

PERFORMANCE FEATURES

The GB GEAR OIL EP RANGE is formulated to provide maximum protection in the diverse conditions and applications where industrial gear oils are utilised and provides clean-gear performance under conditions of high temperature and oxidation. It can perform in the presence of water, as in steel mills, or in highly contaminated environments, such as mines or quarries, whilst sustaining high loads, speeds and operating temperatures. The GB GEAR OIL EP RANGE offers the following features:

- Enhanced bearing and gear protection
- High load carrying capability
- Micropitting performance
- Thermal and oxidation stability
- Rust and corrosion protection
- Excellent seal protection
- Advanced contamination protection
- Low foaming

PERFORMANCE DETAILS

At the relevant viscosities, the GB GEAR OIL EP RANGE may be used where the following specifications are required:

AGMA 9005-E02	FLENDER AS 7300
AGMA 9005-F16	GB 5903-2011 (CKC)
AIST 224	ISO 12925-1 CKC & CKD
DAVID BROWN S1.53.101 E	JIS K2219 class 2
DIN 51517 part III CLP	JOY SK025318-0004
FIVES CINCINNATI MACHINE P-76, P-77, P-74, P-59, P-35	
FLENDER MICROPITTING PERFORMANCE TO FVA 54/7 (90°C)	

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GB LUBRICANTS

Albany Road Gateshead NE8 3BP

Tel: 0191 490 4312
Fax: 0191 477 9544
e-mail: gblsales@gb lubricants.co.uk
www.gb lubricants.co.uk

Trading Name of Goodall Bates & Todd Ltd



GB GEAR OIL EP RANGE

CHARACTERISTICS

TEST	UNIT	METHOD	TYPICAL PHYSICAL CHARACTERISTICS				
			46	68	100	150	220
ISO	-	-	46	68	100	150	220
<u>Density @ 15°C</u>	kg/m ³	ASTM D4052	870	874	876	883	890
Kinematic Viscosity @ 40°C	cSt	ASTM D445	46.1	65.0	101.3	156.9	220.7
Kinematic Viscosity @ 100°C	cSt	ASTM D445	6.9	8.4	12.0	16.0	19.6
Viscosity Index	-	ASTM D2270	103	99	109	105	100
Pour Point	°C	ASTM D97	-24	-24	-24	-24	-18
Flash Point (PMCC)	°C	ASTM D93	180	187	188	190	192
FZG, A/8.3/90, pass stage	-	DIN ISO14635-1	12	12	>12	>12	>12

TEST	UNIT	METHOD	TYPICAL PHYSICAL CHARACTERISTICS			
			320	460	680	1000
ISO	-	-	320	460	680	1000
<u>Density @ 15°C</u>	kg/m ³	ASTM D4052	896	902	920	930
Kinematic Viscosity @ 40°C	cSt	ASTM D445	328.4	459.0	684.1	994
Kinematic Viscosity @ 100°C	cSt	ASTM D445	25.1	30.3	39.5	53.6
Viscosity Index	-	ASTM D2270	99	95	96	102
Pour Point	°C	ASTM D97	-12	-12	-9	-9
Flash Point (PMCC)	°C	ASTM D93	195	200	200	220
FZG, A/8.3/90, pass stage	-	DIN ISO14635-1	>12	12	12	12

STORAGE AND HANDLING

The GB GEAR OIL EP RANGE should be stored under cover to avoid water collecting in the rim of upturned barrels.

Further information on the GB GEAR OIL EP RANGE 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.