

Foxwood Close Foxwood Industrial Park Sheepbridge Chesterfield Derbyshire S41 9RB United Kingdom T: 01246 261 828 F: 01246 261 830 sales@par.gb.com www.par.gb.com

nga. ISO 9001 Registered

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TECHNICAL DATA

PAR INDUSTRIAL GEAR OILS

DESCRIPTION

PAR Industrial Gear Oils have been formulated to meet the lubrication requirements of a wide range of gear tooth form configurations, such as spur, bevel, helical, double helical, worm, spiral bevel and hypoid. PAR Industrial Gear Oils have excellent anti-wear and EP properties, improved oxidisation and corrosion resistance, demulsibility and anti-foam characteristics.

PERFORMANCE SPECIFICATIONS

PAR Industrial Gear Oils are capable of meeting the performance limits expressed by all current industrial gear oil specifications, including:

- \rightarrow Cincinnati Millicron EP Gear Lubricants P59 & P63
- \rightarrow Extreme Pressure Oil US Steel Requirement No 220 & 221
- \rightarrow Extreme Duty Oil US Steel Requirement No 222
- \rightarrow AGMA Mild EP Gear Lubricants

David Brown Grade	PAR ISO Grade		
No. 1 EP	/		
No. 2 EP	68		
No. 3 EP	100		
No. 4 EP	150		
No. 5 EP	220		
No. 6 EP	320		
No. 7 EP	460		
No. 8 EP	680		

APPLICATIONS

PAR Industrial Gear Oils may be safely recommended for all enclosed gear applications, providing the correct viscosity grade is selected. Particularly recommended in situations where extreme pressure (EP) characteristics are required and high operational temperatures are experienced.

Recommended for steel mill gearbox applications where shock loading conditions impose special stresses.

TYPICAL PHYSICAL PROPERTIES

Grade	68	100	150	220	320	460	680
ISO Viscosity Grade	68	100	150	220	320	460	680
Specific Gravity @ 15°C	0.836	0.893	0.895	0.898	0.901	0.911	0.900
Kinematic viscosity @ 40°C, cSt	68	100	150	220	320	460	680
Kinematic viscosity @ 100°C, cSt	8.2	11.8	13.5	17.9	23.5	31.4	35
Viscosity Index (VI)	98	97	100	95	95	92	80
Pour point, °C	-15	-15	-15	-15	-15	-15	-12
Closed Flash point (PMCC), °C	190	200	205	210	218	225	230

HEALTH & SAFETY

Please refer to Material Safety Data Sheet (MSDS).

Statements, technical information and recommendations contained herein are based on tests we believe to be reliable but they are not to be construed in any manner as warranties expressed or implied. The user shall determine the suitability of the product for their intended use and the user assumes all risk and liability whatsoever in connection therewith.

- \rightarrow Public Authority Standard PAS 06-04 GSP
- \rightarrow David Brown Gears Specification ET 19
- \rightarrow ALCOA-ML S10-S12-S14