Product Data

ALPHASYN EP RANGE

Issue Number 3
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Synthetic Industrial Extreme Pressure Gear Oil

DESCRIPTION

Castrol Alphasyn EP is a high performance, polyalphaolefin (PAO) based synthetic gear oil. The PAO base stock combined with a carefully balanced additive system provides optimum performance in high and low temperatures and under extreme and shock loads.

APPLICATION

Alphasyn EP gear oils are for use in gearboxes subjected to high loads and increased or low operating temperatures, and are available in ISO viscosity grades, 150, 220 & 320

FEATURES	BENEFITS
Outstanding protection against micro-pitting	Reduced risk of premature gear tooth failure
Excellent thermal and oxidative stability	Extends oil life. Reliable operation even up to 121ºC
Outstanding load carrying abilities	Eliminates wear and damage caused by heavy and shock loads
Corrosion resistance	Prolongs the working life of the equipment
High viscosity index	Suitable for operations fluctuating over a wide temperature range
Very low Pour Point	Allows cold start up without pre-heating. Reliable in applications exposed to low temperatures
Rapid air release (Passes Flender Foam Test)	Prevents foaming and bearing damage
Good demulsification	Rapid separation from water extends the lubricant life

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TYPICAL PHYSICAL CHARACTERISTICS

ISO VISCOSITY GRADE	**150**	**220**	**320**
Kinematic Viscosity			
@ 40ºC, cSt	150	220	320
@100ºC, cSt	18	25	33
Air Release Value @ 75ºC, mins	6	10	12
Viscosity Index	120	120	120
Pour Point, ºC	-36	-42	-36
Closed Flash Point, ºC	246	246	246
Demulsification, min (D1401)	5	10	10
Foam Sequence, mis	0/0	0/0	0/0
Acidity, mgKOH/g	0.5	0.5	0.5
CORROSION TESTS	-	-	-
Salt Water (Steel), IP135B	Pass	Pass	Pass
Copper Corrosion Test, 3 hrs @ 120ºC, IP154	1b	1b	1b
OXIDATION CHARACTERISTICS	-	-	-
@ 95ºC kV 100 change, %	1.5	1.5	1.5
@ 121ºC kV 100 change, %	1.7	2.0	2.5
WEAR CHARACTERISTICS	-	-	-
4-Ball Weld Point, kg	250	260	260
1 hr Wear @ 20kg, 1800 rpm, mm	0.3	0.3	0.3
Load Wear Index	52	52	52
FZG (A/8.3/90) Fail Stage	-	-	14+
FZG (A/16.6/140) Fail Stage	12+	-	-

KEY APPROVALS:-

David Brown,

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Health and Safety information sheets are available for all Castrol products from the address below:
Castrol (U.K.) Limited, Pipers Way, Swindon, Wiltshire SN3 1RE, England, Telephone: Orders/Enquiries (08459)645111, Technical Enquiries (01793)452111, Fax (01793)491442

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