



Product Data

Alpha™ HC EP Range

Synthetic Industrial Gear Oil

Description

Castrol Alpha™ HC EP Range of lubricants (previously called Isolube EP) are a series of synthetic gear oils that exceed the performance levels historically attributed to the traditional synthetic products that are available today. Alpha HC EP Range lubricants are formulated to provide optimum wear protection in industrial gear sets, off-highway construction and mining applications where consistent performance is critical. Alpha HC EP Range lubricants offer a unique approach to gear and system component lubrication through a focused formulation that will provide the end user with maximum confidence in the selected application.

Industry Specifications and OEM Approvals

- ANSI/AGMA Standard 9005-E02
- DIN 51517 Part 3
- AIST 224

Advantages

- Alpha HC EP Range lubricants' chosen synthetic components provide the potential for extended drain intervals and reduced maintenance costs.
- Alpha HC EP Range lubricants have noted viscosity range properties for low temperature fluidity and controlled volatility.
- Superior rust protection.
- Enhanced demulsibility and hydrolytic stability.
- Exceptional oxidation and thermal stability.
- Excellent anti-wear performance.

Alpha HC EP Range lubricants are formulated for off-highway construction, mining applications, and gear-sets where extreme and harsh lubricant environments exist and performance is critical.

Typical Characteristics

Name	Method	Units	68	150	220	320	460	680
Kinematic Viscosity @ 40°C / 100°F	ISO 3104 / ASTM D445	mm ² /s	67.8	149.2	220.8	319.4	458.2	704.0
Kinematic Viscosity @ 100°C / 210°F	ISO 3104 / ASTM D445	mm ² /s	10.4	18.9	25.6	32.3	41.2	62.2
Viscosity Index	ISO 2909 / ASTM D2270	-	140	143	148	141	139	156
Timken OK Load test	ASTM D2509	kg/lb	34/75	34/75	34/75	34/75	34/75	34/75
FZG Gear Scuffing test - A/8.3/90	ISO 14635-1 / ASTM D5182	Failure Load Stage	>12	>12	>12	>12	>12	>12
Pour Point	ISO 3016 / ASTM D97	°C/°F	-45/-49	-36/-32	-36/-32	-36/-32	-23/-9	-27/-17
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	227/441	228/442	228/442	229/445	229/445	229/445
API Gravity	ASTM D287	-	35.4	33.4	33.0	32.4	31.0	35.0
Specific Gravity @ 16°C / 60°F	ISO 3675 / ASTM D1298	-	0.848	0.858	0.860	0.863	0.871	0.850
Pounds per Gallon	ASTM D287	-	7.06	7.14	7.16	7.18	7.25	7.07

Subject to usual manufacturing tolerances.

Additional Information

Warranty and Protection Requirements

- Exceeds all manufacturers' warranty requirements for applications requiring an AGMA EP, AIST 224, or DIN 51524 part 3 type industrial gear oil.

This product was previously called Isolube EP Range. The name was changed in 2015.

Alpha™ HC EP Range

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