ExxonMobil

EHC™ Series

ExxonMobil Basestocks , Gabon

Product Description

EHC base stocks by ExxonMobil are designed for performance capability in a broad range of finished lubricant applications. With base oil interchange and viscosity grade read-across capabilities, ExxonMobil's EHC base stock slate offers broad coverage, enabling supply chain flexibility and simplified qualification testing requirements. ExxonMobil follows rigorous processes to ensure reliable delivery of consistent quality base stocks so customers can be confident in their base stock supply. EHC base stocks by ExxonMobil comprise a global Group II slate as defined within API and ATIEL guidelines for formulation and qualification of automotive lubricants.

EHC base stocks by ExxonMobil may also be utilized in Industrial and Marine applications where formulations benefit from the increased oxidation stability and higher VI.

Features and Benefits

EHC base stocks deliver qualities that enable our customers to produce high performance blends. Key features include:

- Tightly controlled volatility and viscosity index (VI) specifications enabling formulations to meet or exceed API, ACEA and ILSAC requirements
- Targeted saturates levels to provide optimum additive solubility
- Exceptional oxidation stability
- Product specifications that enable formulators to meet or exceed passenger and heavy-duty engine oil quality requirements.

Specifications

Property	Standard Method(a)	Limits	EHC 45	EHC 50	EHC 65	EHC 110	EHC 120	EHC 340 MAX
ASTM Color	ASTM D1500	Max	L0.5	0.5	L0.5	0.5	0.5	L1.5
Appearance	Visual	Min-Max	Clear and Bright	Clear and Bright	Clear and Bright	Clear and Bright	Clear and Bright	Clear and Bright
Cold-Cranking Simulator, Apparent Viscosity @ -20 C,mPa.s	ASTM D5293	Max		1,500	3,100			
Cold-Cranking Simulator, Apparent Viscosity @ -25 C,mPa.s	ASTM D5293	Max	1,550					
Flash Point, Cleveland Open Cup,°C	ASTM D92	Min	204	210	214	230	255	294
Kinematic Viscosity @ 100 C,mm2/s	ASTM D445	Min-Max	4.4-4.7	5.2-5.6	6.3-6.6	10.0-12.0	11.7-12.5	32.5-35.5
Kinematic Viscosity @ 40 C,mm2/s	ASTM D445	Min-Max					96-108	460-520
Noack Volatility, Procedure B,mass%	ASTM D5800-PROB	Max	14.5	13.5	10			
Pour Point,°C	ASTM D97	Max	-18	-18	-18	-15	-15	-15
Saturates,wt%	ASTM D7419	Min						98
Viscosity Index	ASTM D2270	Min-Max	113-119	110-119	103-109	95-110	102-115	95-115

Note 1: Products are certified on release to meet the values specified. Actual values may deviate within the established reproducibility of the test method specified.

Note 2: For purpose of determining conformance with specification, observed or calculated values shall be rounded off to the nearest unit in the last significant digit used in expressing the limiting value in accordance to the ASTM E 29 method

(a) In lieu of standard test method, alternate test methods may be used for the certification of a product property.

(b)EHC 340 MAX to be commercially available starting in 2025.

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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