



EHC™ Series

ExxonMobil Basestocks , Switzerland

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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