Mobil

Somentor™ EH and EL Series

Mobil Industrial , Switzerland

Premium Quality Fully Compounded Cold Rolling Oils

Product Description

Somentor™ EH and EL Series are premium quality fully compounded cold rolling oils formulated with high quality base oils and carefully selected additives to enhance lubricity, load carrying ability and oxidation stability for extreme cold rolling operations. Somentor E series grades are suitable for the cold rolling of both ferrous and non-ferrous metals and offer unmatched versatility by enabling optimum performance in terms of reduction, speed, and brightness to be achieved.

Features and Benefits

Somentor EH and EL Series oils are formulated to provide quality production of cold rolled parts made from high carbon, stainless steel, copper and copper alloys. Features and benefits include:

- Specialised chemistry permits optimum performance in terms of pass schedules, mill power and brightness to be achieved.
- Excellent filterability permitting optimum life to be achieved
- Minimal tendency for soap formation due to high chemical and oxidation stability
- Efficient cooling properties achieved through low viscosity and excellent lubrication performance.
- High chemical and oxidation stability minimises requirement for additive top-ups during use; this also prolongs coolant bath life.
- Ability to match the precise/more demanding operating requirements by blending complementary products.

Applications

Somentor EH and EL Series provide effective lubrication, cooling and filterability during all rolling applications, even under the severe conditions. These metal forming oils are recommended in the following applications:

- Cold rolling of high carbon, stainless steel, copper and copper alloys
- Suitable for use on four-hi and six-hi mills, 20 hi multi-roll mills, and tandem multi-roll operations.
- Somentor EL 45/EH 45 can be used to compensate viscosity increases of Somentor EL 70/EH 70 respectively during service
- Somentor EL Series provide excellent performance in bright annealing processes
- Somentor EH 70 is suitable for rectification operations and band polishing
- Somentor E series products are suitable for use in hydraulic systems to reduce contamination effects, depending on pump suitability for low viscosity fluids.
- Somentor E series grades are suitable for use in multi roll back-up bearing systems, with the exception of Somentor EH 45

Properties and Specifications

Property	EH 45	EH 70	EH 80	EL 45	EL 70
Appearance, AMS 1738	Clear and Bright	Clear and Bright	Clear & Bright	Clear and Bright	Clear and Bright
Density @ 15 C, g/cm3, ASTM D4052	830	857	858.7	823	851
Flash Point, Cleveland Open Cup, °C, ASTM D92	136	158	156	142	158
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	4.2	7.5	8.6	4.2	7.3

Property	EH 45	EH 70	EH 80	EL 45	EL 70
Pour Point, °C, ASTM D97	-15	-27	-30	-12	-21
Saponification Number, mgKOH/g, ASTM D94	30	30		9	9
Saponification Number, mgKOH/g, DIN 51559			32		
Total Acid Number, mgKOH/g, ASTM D664	<0.05	<0.05	0.08	<0.05	<0.05

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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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com
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