

Somentor EH and EL Series

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

Typical Properties

Somentor EH Series

Grade	EH 45	EH 70	EH120	EL 45	EL 70
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Somentor EH Series

Appearance, Visual	Bright and Clear	Bright and Clear	Bright and Clear	Clear and Bright	Clear and Bright
Kinematic Viscosity, ASTM D 445					
mm ² /s @ 40°C	4.2	7.53	12.2	4.2	7.3
mm ² /s @ 100°C					
Pour Point, °C, ASTM D 97	-15	-27	-15	-12	-21
Flash Point, °C, ASTM D 92	136	158	162	142	158
Density @ 15 °C kg/l, ASTM D 4052	830	857	860	823	851
Neutralization Number, mgKOH/g,	<0.05	<0.05	<0.05	<0.05	<0.05
Saponification Number, mgKOH/g, ISO 6293	30	30	30	9	9

Health and Safety

Based on available information, this product is not expected to produce effects on health when used for the intended application and the recommendations provided in the Material Safety Data sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet on (insert Internet address). This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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