

eni Codium L



The **eni CODIUM L** series are special oils for the textile industries, formulated using colourless oils that, due to their extreme degree of refining, are free of those hydrocarbons whose nature makes them the most difficult to remove. A particular additive treatment gives these products certain features which distinguish them as superlative textile oils.

CHARACTERISTICS (TYPICAL FIGURES)

eni CODIUM L		15	46	100
Viscosity at 40°C	mm ² /s	15	46	100
Saybolt Color	mm ² /s	+ 10	+ 10	+ 10
Flash Point COC	°C	175	190	215
Pour Point	°C	- 18	- 18	- 18
Mass density at 15°C	kg/l	0,860	0,900	0,900

PROPERTIES AND PERFORMANCE

- **The eni CODIUM L** family are top-quality oils with the following features common to all the viscosity grades: excellent anti-rust properties for protection of lubricated components, optimum adhesive and antidrip properties, good washability for removal of any traces of oil from the fabric, free of coloration to minimize any effects of residual contamination after washing.
- **eni CODIUM L 15** is specifically intended for the needles of fine knitting machines and nylon hosiery equipment. This product therefore has high oxidation resistance to avoid formation of sludge and deposits, which are particularly harmful in view of the delicacy of such machinery.
- It also acts to remove weaver's paste. In this field of work, weaver's paste has to be applied to the yarn to protect it from abrasion and breakage during the manufacturing process. The oil provides furthermore an effective protection against corrosion and rusting of the machine needles, problems aggravated both by the damp working conditions of this machinery and by the use of weaver's paste. Finally, the oil must be washable, for easy removal of traces of oil from the finished article.
- **eni CODIUM L 15** possesses an optimum quota of all the above properties and is therefore well able to offer the best overall performance in this delicate application.
- **eni CODIUM L 46** is expressly intended for lubrication of knitting machine movements and spinning and cabling rings.
- An oil for the movements of knitting machines must have the following properties:
 - high oxidation stability, to avoid formation of deposits and sludge which can make start-up difficult, compromise the regular operation of the delicate mechanisms, as well as contaminating the finished article with oxidized material which impairs the washing process;
 - good washability, to enable effective removal of eventual traces of oil on the finished article;
 - anti-rust properties, to avoid corrosion of components operating in very damp environments;
 - anti-static properties, to counteract the deleterious effects of static electricity.

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- For spinning and cabling rings efficient lubrication is needed to facilitate their rotation, improve their smoothness, reduce noise, prevent excessive wear and reduce yarn breakage. In this application too, washability properties are required, since the oil may come into contact with the yarn and stain it. Oxidation resistance and rust protection are also desirable properties.
- **eni CODIUM L 46**, thanks to a careful choice of base oils and the additives incorporated, offers a full measure of all the above mentioned properties, needed for this particular application.
- **eni CODIUM L 100** has been expressly developed for the movements of looms and other weaving machinery. To reduce staining to the minimum, oils with adhesive and anti-drip properties are preferred since they limit drips and spurts coming mainly from certain components such as cams and shuttle pickers; good washability is also desirable, to facilitate removal of eventual traces of oil from the fabric in alkaline or detergent soaking tanks. Washability properties are particularly useful for the upper movements of the looms, normally located above the warp and the fabric, where the possibilities of the inevitable drips are obviously greater.