



eni Tilia SX

eni Tilia SX are "food grade" high performance hydraulic and multipurpose fluids developed to meet the stringent requirements of food and pharmaceutical industries.

eni Tilia SX are based on synthetic oil (PAO) and antiwear, anticorrosive and antioxidant additives.

The excellent cold behaviour and the thermal stability make them suitable for applications working at low (refrigerators, freezer) or at high temperatures (sterilization systems, bottling industries, ovens).

CHARACTERISTICS (TYPICAL FIGURES)

eni Tilia SX		32	46	68	100
Viscosity at 40 °C	mm ² /s	31.4	46.4	69.6	103
Viscosity at 100 °C	mm ² /s	5.92	8.21	11.14	15.1
Viscosity Index	-	136	152	152	154
Flash Point, P.M.	°C	240	250	250	250
Pour Point	°C	-50	-50	-50	-40
Density at 15 °C	kg/m ³	828	830	832	837

PROPERTIES AND PERFORMANCE

eni Tilia SX are **NSF H1 approved** and **registered** lubricants recommended for use where an incidental contact with food can occur.

The use of **NSF H1** registered lubricants is the most effective solution to meet the request of the **HACCP** (Hazard Analysis and Critical Control Point) System.

eni Tilia SX are formulated exclusively with additives listed in the **FDA Group 21 CFR 178.3570** and they are free of:

- genetically modified materials;
- main allergens substances like nut oils, soya oils, dairy industry derivatives;
- animal derived materials.

eni Tilia SX have the following properties and characteristics:

- very high viscosity index that results in minimum variation of viscosity with change in temperature;
- outstanding cold behaviour and very high thermal-oxidative stability ensuring excellent performance in a wide range of temperature;
- excellent antirust, anticorrosion and antiwear properties that ensure effective protection, efficiency and long life of all moving parts of hydraulic circuits.

The outstanding anti-wear properties are demonstrated by the following test:

- 4 Ball Wear: for ISO VG >32 < 0.35 mm.
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eni Tilia SX are compatible with the elastomers normally used in food machinery lubrication systems.



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APPLICATIONS

eni Tilia SX are recommended for the lubrication of hydraulic systems, plain or rolling bearings and conveyors present in food and pharmaceutical industries.

The higher grades are also suitable to lubricate small gearboxes.

The excellent thermal stability makes **eni Tilia SX** suitable for the lubrication of machines and components operating in environments at low temperatures (refrigerators, freezer, frozen food industry) or at high temperatures (sterilization systems, bottling industries, bread and pastry industries).

eni Tilia SX 32 is suitable for lubrication of little pneumatic tools.

SPECIFICATIONS

eni Tilia SX are **NSF H1** registered and the package reports the NSF symbol and registration number:

eni Tilia SX 32: n° 151324

eni Tilia SX 46: n° 151327

eni Tilia SX 68: n° 151328

eni Tilia SX 100: n° 151329

eni Tilia SX are “Kosher”, “Halal” certified.

eni Tilia SX meet the requirements of the following classifications/specifications:

eni Tilia SX	32	46	68	100
ISO 6743/4 L-HM	X			
ISO 6743/4 L-HV		X	X	X
DIN 51524 HLP	X			
DIN 51524 HVLP		X	X	X

eni Tilia SX are produced in a plant **ISO 21469**.

NOTE

All “food grade” lubricants should be stored from other lubricants, chemical substances and foodstuffs and out of direct sunlight or other heat sources. Store between 0°C and +40°C.