



# eni Tilia

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

**eni Tilia** are based on a careful blend of white pharmaceutical oil and antiwear, anticorrosive and antioxidant additives.

The lower grades are also suitable to lubricate the components of pneumatic systems.

## CHARACTERISTICS (TYPICAL FIGURES)

eni Tilia		15	22	32	46	68	100
Viscosity at 40 °C	mm <sup>2</sup> /s	16.5	23.1	32.5	47.0	69.6	101.0
Viscosity at 100 °C	mm <sup>2</sup> /s	3.89	4.82	6.52	8.41	11.14	15.15
Viscosity Index		133	134	160	156	152	158
Flash Point, P.M.	°C	>170	210	200	210	220	220
Pour Point	°C	-15	-15	-15	-10	-10	-10
Copper Corrosion 3h/100°C		1a	1a	1a	1a	1a	1a
Density at 15 °C	kg/m <sup>3</sup>	850	853	855	857	863	866

## PROPERTIES AND PERFORMANCE

**eni Tilia** 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** 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** have the following properties and characteristics:

- very high viscosity index that results in minimum variation of viscosity with change in temperature;
- good cold behaviour and thermal-oxidative stability ensuring good performance in a wide range of temperature;
- very high antirust, anticorrosion and antiwear properties ensuring 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: < 0.4 mm.

**eni Tilia** are compatible with the elastomers normally used in food machinery lubrication systems.



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## APPLICATIONS

**eni Tilia** are recommended for the lubrication of hydraulic systems, plain or rolling bearings and conveyors presents in food and pharmaceutical industries. The lower grades are also recommended to lubricate the components of pneumatic system. The higher grades are also suitable to lubricate small gearboxes.

## SPECIFICATIONS

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

- eni Tilia 15:** n° 151317
- eni Tilia 22:** n° 151319
- eni Tilia 32:** n° 151320
- eni Tilia 46:** n° 151321
- eni Tilia 68:** n° 151322
- eni Tilia 100:** n° 151323

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

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

<b>eni Tilia</b>	<b>15</b>	<b>22</b>	<b>32</b>	<b>46</b>	<b>68</b>	<b>100</b>
ISO 6743/4 L-HM	X	X				
ISO 6743/4 L-HV			X	X	X	X
DIN 51524 HLP	X	X				
DIN 51524 HVLP			X	X	X	X

**eni Tilia** are produced in a plant certified **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.