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# Non Tox Oil Gear EP

ISO 220

**Food-Grade fully synthetic lubricant designed for industrial gears and reduction units in food processing and handling machines.**

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PAKELO NON TOX OIL GEAR EP ISO 220 is a fully synthetic lubricant, based on PolyAlphaOlefins (PAO) base stocks and with an additive package specifically designed for industrial gears and reduction units in food processing and handling machines.

The product is NSF registered according to the H1 Classification: *“This product is acceptable as a lubricant with incidental food contact (H1) for use in and around food processing areas.”*

PAKELO NON TOX OIL GEAR EP ISO 220 provides the following main properties:

- odourless and tasteless synthetic base stocks
- high Viscosity Index that helps to keep almost stable viscosities under wide temperature ranges
- high Flash Point
- very low Pour Point
- very high resistance to oxidation and to thermal degradation, thanks to its true synthetic base oils used, that extend the product service life without altering the product molecular composition
- low oil volatility that helps to reduce oil consumption and possibility of top-ups
- high anti-wear and load resistance performance
- anti-foam, anti-corrosion and anti-rust characteristics
- excellent demulsibility (water separation) characteristics
- superior long lasting properties: depending on working conditions, it is possible to increase drain intervals when compared to standard petroleum based products
- low toxicity
- free of allergen substances and OGM derivatives in order to comply with the food contamination requirements
- production process and raw materials comply with the requirements of Halal regulations

In order not to affect the exceptional lubricating and toxicological features of PAKELO NON TOX OIL GEAR EP series, a preventive flushing and/or a reduction of the first drain interval are strongly recommended when replacing the charge.

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## Application fields

PAKELO NON TOX OIL GEAR EP ISO 220 is a product specifically designed for industrial gears and reduction units, even under heavy working conditions, in food processing and handling machines.

The chemical composition free from allergens and OGM components makes it the ideal product to avoid food contamination.

PAKELO NON TOX OIL GEAR EP is available in different ISO Viscosity Grades.  
For the correct Viscosity Grade selection please refer to Constructor recommendations and ambient/working temperatures.

## Performance levels

The product fulfils the requirements for incidental Food Contact as per NSF H1 and FDA 21CFR178.3570.

## Approvals

NSF H1 Registration Number: 125881.

## Chemical-Physical Characteristics

Non Tox Oil Gear EP	Method analysis	Unit measure	Value ISO 220
NSF H1 Registration Number	-	-	125881
Density at 15°C	ASTM D1298	kg/l	0,852
Kinematic Viscosity at 40°C	ASTM D445	cSt	220,2
Kinematic Viscosity at 100°C	ASTM D445	cSt	25,6
Viscosity Index	ASTM D2270	-	148
Demulsibility at 82°C	ASTM D1401	minutes	15
Flash Point (C.O.C)	ASTM D92	°C	> 240
Pour Point	ASTM D97	°C	-35
Evaporability test (200°C/1h)	Internal	% (w/w)	3,5

*The data just above refer to average values and must not be understood as guaranteed characteristics.*

*This Technical Data Sheet has been carefully checked to guarantee complete and precise information. However, we do not take any responsibility in case of damages caused by any mistakes or omissions. Due to continual product research and development, the information contained herein is subject to change without notification.*