

MOL Food Gear 220

food-grade gear lubricant



MOL Food Gear 220 is a synthetic gear oil produced from PAO (Polyalphaolefin) base oil and multiple function additives, that can be used in lubricants of drive gears operated in the food processing industry. The components comply with the system of requirements issued by NSF, the international organisation that qualifies food-grade lubricants. Compared with conventional mineral oil gear oils, its range of application temperatures is wider and its oxidation stability is better. It is a category H1 product registered by NSF: "This product can be used as food-grade lubricant (H1) in the direct and indirect environment of food processing, where there is a possibility of incidental food contact." It is recommended to wash out the system before the first filling, or to reduce the period of first oil change after filling in order to make sure that the outstanding lubricating ability of the liquid is retained, and that its non-toxic characteristics are ensured. This is particularly important if the system operated previously with a conventional (mineral oil based) lubricant.

Application



Equipment in possible food contact

Normal and high load gear drives

Mist lubrication systems

Conveyors, chains, sliding chains operating at high temperatures

Features and benefits

NSF H1 registered quality

Applicable in each stage of a food supply chain
No health risk when in contact with foodstuffs below the permitted range

Good load-carrying ability

Provides appropriate wear protection of surfaces, even at high loads

Exceptional thermal and oxidation stability

Protects against deposit formation at high temperatures
Increased oil drain intervals, so reduced lubricant consumption

High viscosity index

Optimal flow properties in a wide range of temperatures
Safe application throughout the year

Excellent wear protection

Reduced wear of contacting surfaces, even under varying operating conditions

Excellent corrosion protection

Extreme long term protection of steel and non-ferrous metal parts

Low foaming tendency

Continuous lubricating film, even at high loads

Miscible with mineral based gear oils

In case of mixing, the oil charge can still be used, but the food-grade quality may be lost
Reduced risk of failures due to mixing lubricants

Specifications and approvals

Viscosity grade: ISO VG 220
NSF H1[142132]

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Properties

Properties	Typical values
Density at 15°C [g/cm ³]	0,850
Kinematic viscosity at 40°C [mm ² /s]	228
Kinematic viscosity at 100 °C [mm ² /s]	25,2
Viscosity index	145
Pour point [°C]	-40
Flash point (Cleveland) [°C]	270

The characteristics in table are typical values of the product and do not constitute a specification.

Storage and handling instructions

Store in the original container in dry, properly ventilated area. Keep away from direct flame and other sources of ignition. Protect from direct sunlight.

During transport, storage and use of the product follow the work safety instructions and environmental regulations relating to lubricants.

For further details please read the Material Safety Data Sheet of the product.

In the original container under the recommended storage conditions: 48 months

Recommended storage temperature: max. 40°C

Ordering information

Custom Tariff Number 34039900

SAP code and packaging:

13007280 MOL Food Gear 220 10LA

10 l plastic can (for order only)

13007739 MOL Food Gear 220 170KG

216.5 l steel drum (for order only)

Order booking:

Please contact your local distributor or sales partner for ordering details.