



Shell Cassida Chain Oil

Chain lubricants for use in food manufacturing machinery

Shell Cassida Chain Oil 150 and 1000 are fully synthetic, high performance, anti-wear chain oil which has been specially formulated for the lubrication of drive and transport chains in the food industry.

They are based on a careful blend of synthetic fluids and selected additives chosen for their ability to meet the stringent requirements of the food industry.

Registered by NSF (Class H1) for use where there is potential for incidental food contact. These products meet the guidelines (1998) of, and were previously authorized by, the US Department of Agriculture Food Safety and Inspection Service (USDA FSIS) for H1 use (lubricant with incidental food contact) and listed in Miscellaneous Publication No 1419 "List of Proprietary Substances and Nonfood Compounds". Product contains only substances permitted under US 21 CFR 178.3570, 178.3620 and 182 for use in lubricants with incidental food contact.

Applications

- ◆ Drive and transport chains in the food industry
- ◆ Also intended for use in equipment manufacturing food packaging.

Performance Features

- ◆ Excellent adhesive properties minimise "fling-off" in use and wash-off by both cold and hot water.
- ◆ Extends the service life of chains and reduces downtime due to superior wear prevention and corrosion protection, even under wet or aggressive conditions.
- ◆ Easily applied by either brush, through baths or by automatic lubrication system
- ◆ Neutral odour and taste
- ◆ Solvent-free formulations to provide greater safety in use

Shell Cassida Chain Oil 1000 is also available in spray form.

Seal and Paint Compatibility

Compatible with the elastomers, gaskets, seals and paints normally used in food machinery lubrication systems.

Specifications and Certificates

- ◆ NSF H1
- ◆ Kosher
- ◆ Halal

Operating Temperatures

-30°C to +150°C

Approvals & Recommendations

This is an ongoing process, please contact your local Shell company for any updates.

- ◆ Krones
- ◆ Frigoscandia
- ◆ Stork
- ◆ Amadus Kahl GmbH

Synthetic lubricants

- ◆ Does not contain natural products derived from animals or genetically modified organisms (GMO).
- ◆ Does not contain any allergenic or intolerance-inducing substances as specified in Annex IIIa of EC directive 203/98/EC
- ◆ Suitable for use where vegetarian and 'nut-free' food is prepared.
- ◆ Biostatic; does not promote the growth of bacteria or fungal organisms.

"Incidental Food contact"

Registered by NSF (Class H1) and meets the USDA H1 guidelines (1998) for lubricants for use where there is a potential for incidental food contact.

Made only from substances permitted under the US FDA Title 21 CFR 178.3570, 178.3620 and/or those generally regarded as safe (US 21 CFR 182) for use in food grade lubricants.

To comply with the requirements of US 21 CFR 178.3570, contact with food should be avoided where possible. In the case of incidental food contact, the concentration of this product in the food must not exceed 10 parts per million (10mg/kg of foodstuff).

In locations and/or applications where local legislation does not specify maximum concentration limits, Shell recommends that this same 10 ppm limit be observed, as up to this concentration Shell Cassida Chain Oil will not impart undesirable taste, odour or colour to food, nor will cause adverse health effects.

Consistent with good manufacturing practice, use only the amount necessary to achieve correct lubrication and take appropriate corrective action should excessive incidental contact with food be detected.

Health & Safety

Based on information available, Shell Cassida Chain Oils are unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of industrial and personal hygiene are maintained. As for all oils, prolonged or repeated contact with the skin should be avoided.

For further information refer to the appropriate Shell Material Safety Data Sheet.

Oil condition during use

It is recommended that the condition of the oil and the equipment be regularly checked to ensure safe operation.

Protect the environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Handling and storage

All food grade lubricants, such as Shell Cassida Chain Oil, should be stored separately, out of direct sunlight or other heat sources, from other lubricants, chemical substances and foodstuffs.

Provided that the product has been stored under these conditions we recommend that the product be used within 5 years from the date of manufacture.

Consult your local Shell Company for details.

Accept for use new Shell Cassida Chain Oil only if the manufacturer's seal is intact on the packaging.

Before opening the pack ensure the area around the closure is clean. It is recommended that it be cleaned with Shell Cassida Fluid PL and/or potable water and then dried with a clean cloth before opening.

Record the date the seal was broken. To prevent product contamination, always close the package after use. Upon opening a pack, the product must be used within 2 years (or within 5 years of date of manufacture, whichever is the sooner

Typical Physical Characteristics

Shell Cassida Chain Oil			150	1000
Property	Test method			
NSF Registration No.			92533	92532
Colour			Colourless to pale yellow	
Density at 15°C	kg/m ³	ISO 12185	846	852
Flashpoint	°C	ISO 2592	260	268
Pourpoint	°C	ISO 3016	-54	-36
Kin. Visc. at 40°C	mm ² /s	ISO 3104	150	1000
Kin. Visc. at 100°C	mm ² /s	ISO 3104	19	80.6

These characteristics are typical of current production and related to the base material before addition of solvent/propellant. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Produced according to Shell Quality Standards, in facilities where HACCP audit and Good Manufacturing Practice have been implemented and form part of the quality/environment management system ISO 9001/ ISO 14001.