



SHELL CASSIDA[®] CHAIN OIL HT

High temperature chain lubricant for use in food manufacturing machinery

Product Description

Shell Cassida[®] Chain Oil HT is a fully synthetic, high performance silicone based oil which has been specially formulated for the food industry to lubricate drive and transport chains operated at elevated temperatures. It is based on synthetic components chosen for their ability to meet the stringent requirements of the food industry. It is registered by the NSF (Class H1) for use where there is potential for incidental contact with food. This product meets the former requirements (1998) of the US Department of Agriculture Food Safety and Inspection Service (USDA FSIS) for H1 use (lubricant with incidental food contact). Shell Cassida[®] Chain Oil HT contains only substances permitted under US 21 CFR 178.3570 for use in lubricants with incidental food contact.

Shell Cassida[®] Chain Oil HT does not contain any natural products derived from animals, nuts or genetically modified organisms (GMOs). It is suitable for use where vegetarian and nut-free food is prepared. Shell Cassida Chain Oil HT does not promote the growth of bacteria or fungal organisms.

Shell Cassida[®] Chain Oil HT is not compatible with mineral oils. All equipment must be carefully cleaned before using Shell Cassida[®] Chain Oil HT.

Applications

- drive and transport chains in the food industry
- lubrication of equipment used in manufacturing food packaging

Features/Benefits

- excellent thermal stability
- low evaporative loss
- excellent corrosion resistance
- medium viscosity makes for easy application
- excellent adhesive properties minimize “fling-off”
- neutral odor and taste
- solvent free formulation

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 (-22°F) to +200°C (392°F)

Between 200°C (392°F) and 250°C(482°F) lubricating intervals must be determined as a function of the application. Peak temperatures up to 280°C (536°F) are possible in some applications, where the lubricated parts are not exposed permanently to temperatures above 200°C (392°F) and where the chain can be lubricated at ambient temperature outside the oven before entering the hot area again.

Solubility

Shell Cassida® Chain Oil HT is stable, does not emulsify with water, lower molecular weight alcohols, glycols or glycerine. It is miscible with ketones, esters, ether and higher molecular weight alcohols.

Incidental Food Contact

Registered by NSF (Class H1) and meet the former USDA H1 guidelines (1998) for lubricants where there is a potential for incidental food contact. Made only from substances permitted under the US FDA Title 21 CFR 178.3570 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 1 part per million (1 mg/kg of foodstuff). In locations and/or applications where local legislation does not specify maximum concentration limits, this same 1 ppm limit should be observed, as up to this concentration **Shell Cassida® Chain Oil HT** will not impart undesirable taste, odor, or color to food. 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.

Handling and Storage

All food grade lubricants, such as Shell Cassida® Chain Oil HT, should be stored separately, out of direct sunlight or other heat sources, from other lubricants, chemical substances and foodstuffs. Store between 0 and 40 deg. C. Provided that the product has been stored under these conditions, we recommend the product be used within 5 years from the date of manufacture. Only accept new Shell Cassida® Chain Oil HT for use if the manufacturer's seal is intact. Before opening the pack ensure the area around the closure is clean. It is recommended that it be cleaned with Shell Cassida® Fluid PL or Shell Cassida Flushing Fluid and/or potable water before opening. Record the date the seal was broken. To prevent product contamination, always close the package after use. Use the product within 2 years of opening.

Typical Properties of Shell Cassida® Chain Oil HT

	Test Method	
Product Code		5058235 (pail)
NSF Registration No.		127934
Appearance	Visual	Clear
Viscosity @ 40°C, cSt @ 100°C, cSt	ISO 3104 ISO 3104	275 125
Viscosity Index	ISO 2909	104
Density at 15°C (kg/l)	ISO 12185	0.976
Flash Point, COC, °F	ISO 2592	>570
Pour Point, °F	ISO 3016	-54
Application Temperatures, °C(°F)		-30°C (-22°F) to +200°C (392°F)

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.

Handling & Safety Information

As for all oils, prolonged or repeated contact with the skin should be avoided. For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.shell-lubricants.com/msds/>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.