



SHELL CASSIDA[®] FLUID RC 220

Synthetic lubricant for use in rotary cookers and sterilizers in the food industry

Product Description

Shell Cassida[®] Fluid RC 220 is a high performance fluid specially developed for use in rotary cooking equipment in food and beverage canning plants. It is based on a careful blend of synthetic fluids and selected additives chosen for their ability to meet the stringent requirements of this type of equipment.

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) and listed in Miscellaneous Publication No. 1419 "List of Proprietary Substances and Nonfood Compounds". **Shell Cassida[®] Fluid RC 220** contains only substances permitted under US 21 CFR 178.3570, 178.3620 and 182 for use in lubricants with incidental food contact.

Shell Cassida[®] Fluid RC 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[®] Fluid RC** does not promote the growth of bacteria or fungal organisms.

Applications

- central systems of rotary cookers and sterilizers which lubricate the can exchange valves and other moving components.

Features/Benefits

- specially formulated to reduce wear in sliding steel-bronze contacts
- improves machine efficiency and reduces oil and energy consumption
- water-miscible, therefore does not contribute to residues in cooking vessels, sterilizers and water purification units
- resists the formation of deposits at elevated temperatures
- neutral odor and taste
- high viscosity index provides excellent lubrication in the hot and cold areas of the machine
- good protection against corrosion of all metal surfaces
- helps increase can cleanliness and reduces cleaning requirements before labelling
- compatible with the elastomers, gaskets, seals and paints normally used in food machinery lubrication systems

Specifications and Certificates

- NSF H1
- Kosher
- Halal
- DIN 51517 CLP

Approvals and Recommendations

- FMC Rotary Pressure and Atmospheric Sterilizers

Incidental Food Contact

Registered by NSF (Class H1) and meets 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, 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 (10 mg/kg of foodstuff). In locations and/or applications where local legislation does not specify maximum concentration limits, this same 10 ppm limit should be observed, as up to this concentration **Shell Cassida® Fluid RC** 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® Fluid RC, should be stored separately, out of direct sunlight or other heat sources, away from other lubricants, chemical substances and foodstuffs. Store inside at ambient conditions. Under these conditions, the recommended shelf life of this product, unopened is 5 years from date of manufacture. Accept new Shell Cassida® products for use only if the manufacturer's seal is intact, and then record the date the seal was broken. Before opening the pack ensure the area around the closure is clean. It is recommended that it be cleaned with potable water. Before opening the package, 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. 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 the package.

Typical Properties of Shell Cassida® Fluid RC 220

	Test Method	220
Product code		65196
NSF Registration No.		119922
Appearance	(Visual)	Pale yellow
Viscosity @ 40°C cSt	ISO 3104	220
@ 100°C cSt	ISO 3104	26
Viscosity Index	D2270	151
Density at 15°C (kg/l)	D1298	0.851
Flash Point (°F), COC	D 92	460
Pour Point (°F), COC	D 97	-55

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/>.