



SHELL CASSIDA[®] FLUID VP 100

Synthetic lubricant for use in vacuum pumps in food manufacturing machinery

Product Description

Shell Cassida[®] Fluid VP 100 is a high performance fluid specially developed for use in vacuum pumps used in the food and beverage processing and packaging industry. It is based on a careful blend of synthetic fluids and selected additives chosen for their ability to meet the stringent requirements of the food industry.

Shell Cassida[®] Fluid VP 100 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, and was previously authorized by, the US Department of Agriculture Food Safety and Inspection Service (USDA FSIS) for H1 use (lubricant with incidental food contact). **Shell Cassida[®] Fluid VP 100** 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 VP 100 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 VP 100** does not promote the growth of bacteria or fungal organisms.

Applications

- vacuum pumps which produce medium vacuum

Features/Benefits

- base fluid has an ability to provide excellent lubrication under the majority of operating conditions
- very good anti-wear performance resulting in greater plant utilization.
- inherently good water shedding properties and resistance to foaming
- excellent high temperature performance resists the formation of oxidation products
- neutral odor and taste
- high viscosity index
- good protection against corrosion of all metal working surfaces
- good low temperature properties down to -40°C
- compatible with the elastomers, gaskets, seals and paints normally used in food machinery lubrication systems.

Specifications and Certificates

- NSF H1
- Kosher
- Halal
- DIN 51506 VBL, VCL, VDL

Approvals and Recommendations

- Busch
- Rietschle

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, 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 VP 100 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 VP 100, 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 VP 100 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® Fluid VP 100

	Test Method	100
Product Code		65195
NSF Registration No.		119923
Appearance	Visual	Colorless
Viscosity	D 445	
@ 40°C, cSt	D 445	100
@ 100°C, cSt	D 445	13.9
@ 100°F, SUS	(calc)	513.7
@ 210°F, SUS	(calc)	75
Viscosity Index	D2270	140
Density at 15°C (kg/l)	D1298	0.841
Flash Point, COC, °F	D 92	527
Pour Point, °F	D 97	-65
Vapor Pressure		
@120°C, mbar	D 2879	0.056
@150°C, mbar		0.226
@175°C, mbar		0.759
@200°C, mbar		1.866

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/>.