



SHELL CASSIDA[®] FLUID CR 46

Compressor lubricant for food manufacturing and food industry

Product Description

Shell Cassida[®] Fluid CR 46 is a high performance fluid specially developed for use in rotary screw and vane air compressors 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 CR 46 is registered by NSF (Class H1) for use where there is potential for incidental contact. This product meets the former guidelines (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) and listed in Miscellaneous Publication No 1419 "List of Proprietary Substances and Nonfood Compounds". This product 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 CR 46 does not contain any natural products derived from animals, nuts or genetically modified organisms. They are suitable for use where vegetarian and nut-free food is prepared. It does not promote the growth of bacteria or fungal organisms

Applications

- screw and vane compressors
- plain and anti-friction bearings
- general purpose lubrication including light duty gearboxes

Features/Benefits

- base fluid has ability to provide excellent lubrication under many operating conditions
- excellent anti-wear protection
- good water rejection
- resists foaming
- excellent resistance to formation of oxidation products at elevated temperatures
- neutral odor and taste
- high viscosity index
- good corrosion protection
- does not contain any natural products derived from animals or genetically modified organisms (GMOs).
- suitable for use where vegetarian food is prepared
- good low temperature properties down to -40°F

Features/Benefits (continued)

This product has demonstrated satisfactory performance for up to 8000 hours in rotary air compressor (hydrovane type) operating at normal temperatures (e.g. up to 212°F). It is strongly recommended that a used oil analysis and equipment condition monitoring service be employed for extended periods of operation in excess of the pump manufacturer's recommended oil change intervals. For details, contact your Shell Sales representative.

Seal and Paint Compatibility

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

Specifications and Certificates

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

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 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 CR 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 CR 46**, 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, the recommended shelf life of the product unopened, is 5 years from date of manufacture. Accept for use new **Shell Cassida®** products 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 **Shell Cassida® Fluid PL** and/or potable water and then dried with a clean cloth. 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 or within 5 years of date of manufacture, whichever is sooner.

Typical Properties of Shell Cassida[®] Fluid CR 46

	Test Method	46
Product code		
Pails		6519705203
Drums		5058789
NSF Registration No.		115022
Appearance	(Visual)	Pale yellow
Viscosity		
@ 40°C cSt	ISO 3104	46
@ 100°C cSt	ISO 3104	8.0
Viscosity Index	ISO 2909	148
Density at 15°C (kg/l)	ISO 12185	0.838
Flash Point (°F), COC	ISO 2592	485
Pour Point (°F), COC	ISO 3016	-70

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

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/>.