



# Shell Cassida Grease VTS

## *Food grade silicone grease for taps, valves and seals*

Shell Cassida Grease VTS 3 is a high performance silicone based speciality grease specially developed for the lubrication and sealing of taps, valves and fittings with EPDM seals (ethylene-propylene-diene rubber) in the food and beverage processing machinery, with good resistance to hot water, steam and disinfectant solutions.

It is based on a very stable synthetic thickener and base fluids chosen for their ability to meet the stringent requirements of the food industry at elevated temperatures.

Registered by NSF (Class H1) for use where there is potential for incidental food contact. This product meets the guidelines (1998) of the US Department of Agriculture Food Safety and Inspection Service (USDA FSIS) for H1 use (lubricant with incidental food contact). The product contains only substances permitted for use in lubricants where incidental contact with food is possible.

### Applications

- ◆ Lubricant and sealing grease for taps, valves and fittings with EPDM (ethylene-propylene-diene rubber) seals.
- ◆ Recommended for the lubrication of all sorts of taps, flow meters and fittings used for the handling of water, drinks and beer, including drum filling inflow valves.
- ◆ Generally applicable for tap cock or spindle valves and for rubber seals such as sleeves, membranes, O-rings seals and lip seals.
- ◆ Recommended for use in sterilisers
- ◆ Not recommended for use in high speed bearings or in heavily loaded machinery

### Performance Features

- ◆ Outstanding resistance to washout with cold and hot water, steam, disinfectant solutions and organic solvents.
- ◆ Good adhesive properties.
- ◆ Neutral odour and taste.
- ◆ Does not affect bear foam stability.
- ◆ Excellent rubber and elastomer compatibility including EPDM seals.
- ◆ Free of mineral oil components

Shell Cassida Grease VTS is **not** compatible with other greases. All equipment must be carefully cleaned before applying Shell Cassida Grease VTS.

### Seal and Paint Compatibility

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

### Specifications and Certificates

- ◆ NSF H1
- ◆ Kosher
- ◆ Halal

### Approvals & Recommendations

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

- ◆ Krones, for use in filling and labelling machines
- ◆ Approved by WRc-NFS Ltd. (Cert. No. 0212508) under the Water Regulations Advisory Scheme. (WRAS®, see [www.wras.co.uk](http://www.wras.co.uk) and [www.wrcplc.co.uk](http://www.wrcplc.co.uk))

### Operating Temperatures

-40°C to +150°C (peak up to +250°C)

### Synthetic lubricants

- ◆ Do not contain natural products derived from animals or genetically modified organisms (GMO).
- ◆ Do 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.

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 parts per million (1mg/kg of foodstuff). In locations and/or applications where local legislation does not specify maximum concentration limits, Shell recommends that this same 1 ppm limit be observed, as up to this concentration Shell Cassida Grease VTS 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 Grease VTS is 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.

**Lubricant condition during use**

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

Care should be take to remove excess material after application.

**Protect the environment**

Take used lubricants and empty packs to an authorised collection point. Do not discharge into drains, soil or water.

**Handling and storage**

All food grade lubricants, such as Shell Cassida Grease VTS, should be stored separately, out of direct sunlight or other heat sources, from other lubricants, chemical substances and foodstuffs. Store between 0°C and 40°C. Provided that the product has been stored under these conditions we recommend that the product be used within 2 years from the date of manufacture. Consult your local Shell Company for details.

Accept for use new Shell Cassida Grease VTS 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 1 years (or within 2 years of date of manufacture, whichever is the sooner).

**Typical Physical Characteristics**

**Shell Cassida Grease VTS 3**

Property	Test method	
NSF Registration No.		131378
WRAS Certificate No.		0212508
Appearance		white
Structure		paste
Type of thickener		PTFE
Worked penetration at 25°C	<sup>1</sup> / <sub>10</sub> mm	ISO 2137
NLGI number		DIN 51818
Kin. Visc. (base oil) at 40°C	mm <sup>2</sup> /s	ISO 3104
Kin. Visc. (base oil) at 100°C (calculated)	mm <sup>2</sup> /s	ISO 3104
Dropping Point	°C	ISO 2176
Application range	°C	-40 to +150
Short term peak temperature	°C	Do not exceed +250
Standard designation	DIN 51502 ISO 6743/9	KP SI 3 P-40 LXDEHA 3

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.