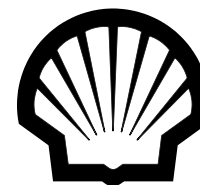


# Shell Cassida Greases HDS



## Heavy duty greases for the food industry

Shell Cassida Greases HDS are very high performance heavy duty lubricants specially blended for the grease lubrication of machinery used in food and beverage processing and packaging industry.

They are based on an aluminium complex thickener, synthetic fluid and selected additives chosen for their ability to meet the stringent requirements of the food industry. Approved by the USDA (H1) they are recommended for use where incidental contact with food may occur.

### Applications

- Slow and medium speed plain and rolling element bearings
- Heavy loaded and shock loaded applications
- Enclosed industrial gearboxes
- Open gears (HDS 00)
- Joints, linkages and slides
- Overhead track systems (as used in slaughterhouses)

Shell Cassida Greases may also be used as protective anti-rust films and as release agents on gaskets & seals of tank closures.

### Performance Features

Shell Cassida Greases HDS 2 and HDS 00 are noted for their long life.

- Excellent wash out resistance to hot and cold water
- Excellent oxidation and mechanical stability
- Excellent corrosion prevention characteristics
- Excellent adhesive or tackiness properties
- USDA - H1 approved\*  
Authorised by the United States Department of Agriculture (USDA) as suitable for use as lubricants with incidental food contact in official establishments operating under the USDA meat and poultry products inspection programme
- Formulated with FDA recognised components (Group 21.CFR 178.3570)

To comply with the stringent regulations applicable throughout the food processing and packaging industry

- Approved for use in Kosher and Halal food production.

### Operating Temperature Ranges

#### Shell Cassida Grease HDS 00 and HDS 2

-30 °C to 120 °C continuous operation  
to 150 °C short time peak temperature

### Typical Physical Characteristics

Shell Cassida Grease	HDS 00	HDS 2
NLGI Consistency	00	2
Colour	Off White	Off White
Base	Aluminium Complex	Aluminium Complex
Base Oil Viscosity @ 40 °C cSt (IP 71)	800	800
Cone Penetration Worked @ 25 °C 0.1mm (IP50)	415	280
Dropping Point °C (IP 132/ASTM-D566-76)	> 200	>270

These characteristics are typical of current production. Whilst future production will conform to Shell's specifications variations in these characteristics may occur.

### Health and Safety

Based on information available, Shell Cassida Greases HDS 00 and HDS 2 are 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. Prolonged or repeated contact with the skin should be avoided.