



# Shell Rhodina Grease BBZ

- Protection against False Brinelling
- Calcium

*High performance, part-synthetic grease, for bearings subject to fretting and false brinelling.*

Shell Rhodina Grease BBZ is specifically designed for high demanding outdoor applications, in particular when protection against false brinelling and fretting corrosion is required – even at very low temperatures.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

Shell Rhodina BBZ provides protection and lubrication for a wide range of temperatures and in particular has excellent low temperature behaviour allowing trouble free operation even in very cold climates.

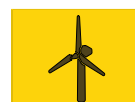
Shell Rhodina BBZ has very good water resistance properties.

This product was developed based on Shells long time experience and knowledge to protect blade bearings in operation and during idling.

It minimizes the risk of bearing failures which may be caused during transportation and mounting.

The combination of selected base oils and additives is providing extended product and equipment life time.

### Main Applications



- Shell Rhodina Grease BBZ is designed for lubrication of specific bearings in wind turbines (e.g. blade bearings) and similar applications. Protection against fretting corrosion, moisture corrosion and false brinelling is provided.
- Shell Rhodina Grease BBZ can also be used in bearings operating at very low temperatures e.g. under arctic conditions.

### Specifications, Approvals & Recommendations

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

### Typical Physical Characteristics

Properties			Method	Shell Rhodina Grease BBZ
NLGI Consistency				1.5
Colour				Light brown
Soap Type				Calcium
Base Oil (type)				Part Synthetic
Kinematic Viscosity	@40°C	mm <sup>2</sup> /s	IP 71 / ASTM D445	13
Kinematic Viscosity	@100°C	mm <sup>2</sup> /s	IP 71 / ASTM D445	3
Cone Penetration Worked	@25°C	0.1 mm	IP 50 / ASTM D217	300
Dropping Point		°C	IP 396	145

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

## Health, Safety & Environment

- **Health and Safety**

Shell Rhodina Grease BBZ is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from <http://www.epc.shell.com/>

- **Protect the Environment**

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

## Additional Information

- **Operating Temperature Range**

Designed for application in a temperature range from – 55 °C up to 100 °C.

- **Advice**

Advice on applications not covered here may be obtained from your Shell representative.