



# Shell GadusRail S4 WFB 000

## High Performance Biodegradable Railway Wheel Flange Grease

Shell GadusRail S4 WFB 000 is a biodegradable grease designed for usage in onboard lubricators in the Railway business requiring a thin grease meeting EN 16028 requirements.

Good anti-wear and anti-corrosive properties are combined with pump ability in a wide range of temperatures.

Shell GadusRail S4 WFB 000 is building up an adhesive lubricating coating on the wheel flange.

### DESIGNED TO MEET CHALLENGES

#### Performance, Features & Benefits

- Good anticorrosive properties
- Favorable flow property at low temperatures
- Highly adhesive coating
- Compatible with standard seals and painting, as normally used with mineral oil based products
- Biodegradable

#### Main Applications



- On board lubrication of trams and railways, for electrically or air pressure operated lubricators.
- Nozzle selection according OEM recommendation.  
Volume range of 10 - 40 mg

#### Typical Physical Characteristics

Properties			Method	Shell GadusRail S4 WFB 000
NLGI Consistency				000
Colour				Light brown
Soap Type				Ca
Base Oil (type)				Synthetic and vegetable based
Cone Penetration Worked	@25°C	0.1mm	ASTM-D217	445 - 475
Dropping Point			°C	140
Low Temp Flow	@-20°C	mbar	DIN 51805	46
DB Ruehr Test	@-30°C	mNm	DBTL 958103	<10
Copper Corrosion			rating	1a

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 GadusRail S4 WFB 000 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**

-30°C/+60°C.

- **Advice**

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