



Formerly Known As: Shell Alvania LA

Shell GadusRail S3 EU

- Extra Protection
- Lithium

Premium Extreme Pressure Railroad Axle Box Grease

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

• Cost Savings via

Reduced grease consumption due to the excellent sealing capabilities of the grease preventing leakage from the labyrinth.

Lower maintenance costs & reduced downtime that result from the use of a high quality grease thoroughly tested to ensure that each batch will operate satisfactorily in extended service.

• Peace of Mind via

Proven technology suitable for extended service use in trains running at up to 200 km/h.

The knowledge that Shell is in FULL control from Research & Development to manufacture & quality assurance in our own ISO approved plants.

Shell brand which guarantees professional standards & guaranteed back up whatever the lubrication problem.

• Convenience via

ONE grease for all requirements as Shell GadusRail S3 EU can be used in all low to medium speed railway applications (underground , freight & passengers trains for coaches and locomotives).

Main Applications



• Rail

European axle box applications where extended service intervals are required to reduce maintenance costs for a linear speed below 200 km/h (for 800 mm diameter wheels and an average bearing diameter dm of 185 mm).

Specifications, Approvals & Recommendations

- DIN EN 12081:2011-01 a

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

Typical Physical Characteristics

Properties			Method	Shell GadusRail S3 EU
Soap Type				Lithium
Colour				Brown
Penetration Worked	@25°C	0.1mm	IP 50 / ASTM D217	245 - 275
NLGI Consistency				2.5
Operating Range	°C			-20 to +120
Emcor Corrosion Protection, Distilled Water	Corrosion Category		IP 220	0/0
Oil Separation (7 days)	%		IP 121	3.2
Dropping Point	°C minimum		IP 396	180
Base Oil (type)				Mineral
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	100
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	11

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 S3 EU Grease 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 Safety Data Sheet, which can be obtained from <https://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**

Shell GadusRail S3 EU is recommended for use over the temperature range -20°C to 120°C.

- **Advice**

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