Technical Data Sheet

Formerly Known As: **Shell Nerita Grease 2858**

Shell **GadusRail** *S4 High Speed EUFR*

Advanced Railroad Axle Box Grease

- Long Life
- Superior Performance
- Lithium

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Cost Savings via**

  Reduced grease consumption due to lower the excellent sealing capabilities of the grease, that prevents leakage from the labyrinth, that result from in house quality control that gives an excellent quality lithium soap.

  Large reduction in downtime that result from the use of the latest in house grease & XHVI base oil technology from Shell, that results in grease of unsurpassed performance proven for use in the latest generation of high speed trains.

  Lower maintenance costs due to the protection that comes from using an exceptional quality grease designed to meet the rigours of daily high speed service individually batch tested to ensure that extended service will be trouble-free.

- **Peace of Mind via**

  Proven technology, thoroughly tested & approved by the leading rail companies (SNCF) & leading OEMs (Timken, SNR, SKF) as suitable for extended service use in trains running at speeds over 200kph. Currently in use in the TGV, Eurostar, Thema & new Shinkansen.

  From the confidence that comes from knowing that every batch is specially tested to guarantee that the grease will resist vibration and provide the expected length of service WITHOUT any premature breakdowns.

  The knowledge that Shell is in FULL control from Research & Development to manufacture & quality assurance in our own ISO approved plants, which have often been audited and passed assessments of quality conscious customers.

  The Shell brand stands for professional product quality management, expertise and support regarding lubrication challenges.

- **Convenience via**

  One supplier for all requirements, reduces time wasted on calls to numerous suppliers, simplifies way of working.

  Guaranteed suitable lubrication of equipment world-wide, as this product is part of the International SeaShell range of products, which can be found throughout the world.

  Availability wherever required, Nationally & Internationally (Shell now markets lubricants in more than 100 countries).

Main Applications

- **Rail**

  High speed European axle box applications where extended service intervals are required to reduce maintenance costs.

Specifications, Approvals & Recommendations

- Batchly approved by SNCF Group
- EN12081 - 2025

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

Typical Physical Characteristics

Properties			Method	Shell GadusRail S4 High Speed EUFR
NLGI Consistency				2.5
Colour				Light brown
Soap Type				Lithium
Base Oil (type)				Mineral
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	40
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	7
Dropping Point		°C	IP 396	>180
Cone Penetration Worked	@25°C	0.1mm	IP 50 / ASTM D217	255

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 High Speed EUFR 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 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**

  Shell GadusRail S4 High Speed EUFR is recommended for use over the temperature range -30°C to 130°C.

- **Advice**

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