



# Shell Gadus E5 1811

- Plastic Ball Joint
- Wide Operating Temperature

## High Performance Plastic Ball Joint Grease

Gadus E5 1811 is a high-performance Plastic Ball-Joint grease designed for conventional and electronic vehicles, which is formulated with high quality synthetic oils and selective thickener compound containing plastic-metal friction modifier that provides low torque in the applications.

Gadus E5 1811 is particularly suitable for the lubrication between plastic materials and metals and shows very good compatibility with plastics or oil/rubber seal materials.

## DESIGNED TO MEET CHALLENGES

### Performance, Features & Benefits

- **Excellent compatibility**

Gadus E5 1811 is compatible with most plastics and oil/rubber seal materials and provide excellent protection of the joint against fretting wear.

- **Excellent low torque property**

Gadus E5 1811 is developed to provide low torque property that enhances the lubrication performance and improves the system efficiency.

- **Excellent oxidation stability**

Gadus E5 1811 is formulated with selective high performance synthetic base oil and additives that provides excellent performance against oxidation and enables extended the grease service life.

- **Excellent low temperature performance**

Gadus E5 1811 is developed to work in a wide operating temperature range and especially at low temperature by providing excellent lubrication and reduce the power need in power steering.

- **Good anti-rust properties**

Gadus E5 1811 provides good anti-rust performance that protect metal materials from corrosion.

### Main Applications



#### Gadus E5 1811 is designed for

- Plastic ball joints for passenger cars and commercial vehicles, especially suitable for EVs and Electronic Control Assist
- Contact points between plastics and metals
- Lubrication points requiring very good compatibility with plastic materials

### Specifications, Approvals & Recommendations

For a full listing of equipment approvals and recommendations, please consult your local representative.

## Typical Physical Characteristics

Properties			Method	Shell Gadus E5 1811
Colour			Visual	Light Yellow
Thickener type				Compound (Urea+)
Base Oil (type)				Synthetic
Kinematic Viscosity	@40°C	cSt	IP 71 / ASTM D445	20
Kinematic Viscosity	@100°C	cSt	IP 71 / ASTM D445	4.3
Cone Penetration, Worked	@25°C	0.1mm	IP 50 / ASTM D217	255 - 295
Dropping Point	°C minimum		IP 396	170
Copper corrosion 24 hrs	24 hours @100°C		ASTM D4048	Max 1b
Rust Test (48 hrs, Distilled water)	52°C, 48h		ASTM D1743	Pass

These characteristics are typical of current production.

## Health, Safety & Environment

### • Health and Safety

This product 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

### • Advice

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

### • Operating Temperature Range

Gadus E5 1811 can be used across a wide range of operating temperatures from -40 to +140°C.