

Formerly Known As: PANOLIN S4 Gear RS 80W90

Shell PANOLIN S4 Gear RS 80W90

- Versatile application
- Readily Biodegradable

Driveline lubricant - readily biodegradable, saturated synthetic esters

Shell PANOLIN Gear RS 80W90 is a is a high performance and readily biodegradable driveline lubricant based on saturated synthetic esters. Recommended for use in environmentally sensitive areas for applications including gearboxes, differentials and final drives.

High-Performance Biodegradable Lubricants

Performance, Features & Benefits

Wear Protection

PANOLIN S4 Gear RS 80W90 has anti-corrosion properties.

• Lower Environmental Impact

Recommended for use in environmentally sensitive areasoffers reduced impact of leak or accidental spillage into the
environment compared to conventional mineral oils.
Readily biodegradable - biodegraded by over 60% after 28
days in the OECD 301 B carbon dioxide evolution test. Low
Ecotoxicity - classified as 'not harmful' to bacteria, algae,
freshwater and marine invertebrates, and fish when tested
as water-accommodated fractions (WAFs) according to
OECD and EPA test guidelines.

Main Applications







Specifications, Approvals & Recommendations

 Biodegradable OECD 301B >60%
 For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Compatibility & Miscibility

 It is strongly recommended that an oil sample is taken from the system following changeover and analysed via the Shell Rapid Lubricants Analysis service to confirm the new fluid charge is fit for use.

· Fluid Compatibility

Shell PANOLIN Fluids are miscible with mineral oils. However, in order to ensure that the environmental properties and performance of Shell PANOLIN Fluids are maintained, the system should be drained and flushed thoroughly when changing fluids.

Typical Physical Characteristics

Properties			Method	Shell PANOLIN S4 Gear RS 80W90
Kinematic Viscosity	@40°C	mm²/s	ASTM D445	92.8
Pour Point		°C	ASTM D97	-33
Flash Point		°C	ASTM D92	173
Density	@15°C	kg/m³	ASTM D4052	920

These characteristics are typical of production, variations in these characteristics may occur.

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 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

Advice

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

· Additional Technical Advice

The information and guidance offered for use of Shell PANOLIN products is based on experience and understanding gained through the development and manufacturing of lubricants. The performance of the products can be influenced by a number of variables, not limited to, contamination, operating temperature, equipment application, external environment and material type. It is recommended that you discuss application and fluid recommendations with both your OEM and local Shell technical representative before the product is used. Advice given is non binding and Shell will not be held liable for any consequence as a result of or through misuse of the fluid.