



Formerly Known As: **Shell Cardium Fluid EP**

Shell Gadus S1 OG 1600

- Suitable Wear Resistance
- Bitumen

Open Gear and Wire Rope Fluid

Shell Gadus S1 OG 1600 is a blend of bitumen, highly refined mineral oils, selected EP additives and high flash point, non-chlorinated, volatile aliphatic diluent ensuring fluidity during application, even at low temperatures.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Excellent extreme pressure properties**
Allows maximum load transmission while protecting gear teeth and other machine elements in particular under boundary lubrication conditions.
- **Very high adhesive characteristics**
Once the diluent has evaporated, the lubricant builds an adhesive high-strength consistent film ensuring protection of gear teeth even under hard operation/weather conditions. The lubricant can easily be cleaned up with solvents.
- **Excellent anti-wear performance**
Long interval between maintenance schedules.
- **Good low temperature properties**
Can be pumped at low temperatures without the risk of plugging feed lines or nozzles. The product remains flexible, retains its adhesive properties and will not crack or flake off gear teeth.

Main Applications



Shell Gadus S1 OG 1600 is recommended for open gears, sliding surfaces of drag lines, construction and dredging equipment, chain and sprocket lubrication, or other applications where high viscosity adhesive products are required.

Specifications, Approvals & Recommendations

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

Typical Physical Characteristics

Properties			Method	Shell Gadus S1 OG 1600
Color				Black
Type				Bitumastic
Base Oil Type				Mineral
Kinematic Viscosity (without diluent)	@100°C	mm ² /s	ISO 3104	1600
Kinematic Viscosity (with diluent)	@100°C	mm ² /s	ISO 3104	56
Kinematic Viscosity (without diluent)	@40°C	mm ² /s	ISO 3104	100000
Kinematic Viscosity (with diluent)	@40°C	mm ² /s	ISO 3104	1660
Flash Point (COC)			ASTM D92	110
EP Performance - Wear Scar			IP 239	0.25
EP Performance - Weld Load			ASTM D2596	500

These characteristics are typical of current production. While future production will conform to Shell's specification, variations in these characteristics may occur.

Health, Safety & Environment

- **Health and Safety**

Shell Gadus S1 OG 1600 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 authorized collection point. Do not discharge into drains, soil or water.

Additional Information

- **Operating temperature**

The minimum operating temperature ranges from -10°C with a maximum range up to 95°C.

- **Advice**

Product recommendations for applications and specifications not covered here may be obtained from your Shell representative.