

SHELL STEELROL® Grease EPH

Grease for heavily loaded bearings and low speeds

SHELL STEELROL® Greases EPH 1 and EPH 2 are a lithium/calcium greases based on high viscosity mineral oils, containing antioxidants, rust inhibitors, EP- and AW-additives. The greases have excellent adhesion and water resistance, extreme load carrying capacity and excellent mechanical stability in the presence of water or emulsion.

Performance Features and Benefits

- Extreme load carrying capacity
- Excellent adhesion and water resistance
- Excellent mechanical emulsion.

Main Applications

SHELL STEELROL® Greases EPH 1 and EPH 2 are developed for lubrication of heavily loaded bearings operating at low speeds and under running conditions where they may be submitted to severe water spraying/flushing, f.ex.

- **Continuous casting machines, support mills, intermediate mills, and work rolls in tandem mills, trim mills, roughing mills, universal mills and pilger mills.**

EPH 2 is suitable for hot rolling as well as cold rolling.

EPH 1 is suitable for continuous casting where the bearing temperature is below +140 °C

- **Heavily loaded slow running bearing**
Heavily loaded slow running swivel bearings and sliding bearings.

Advice on applications not covered in this handbook may be obtained from your Shell representative.

Handling and Safety Information

For information on the safe handling, storage, or use of this product, refer to its Material Safety Data Sheet at <http://www.epc.shell.com/>. If you are a Shell Distributor, please call 1+800-332-6457 for all of your service needs. All other customers please call 1+800-237-8645 for all of your service needs.

Protect the Environment

Do not discharge into drains, soil, or water.

Typical Physical Characteristics

SHELL STEELROL® Grease	EPH 1	EPH 2
Consistency, NLGI	1	2
Penetration, Worked 60 strokes (0,1mm)	310-340	265-295
Dropping point, °C	≥170	≥180
Base oil viscosity		
@ 40°C, cSt	950	950
@ 100°C, cSt	41	41
Rust Prevention Properties		
SKF Emscor, Distilled Water	Pass	Pass
SKF Emcore WWO, distilled water	Pass	Pass
Lubricating ability,		
SKF R2F A	Pass	Pass
SKF R2F B, 130 °C	Pass	Pass
Water Washout Test, ASTM D 1264	≤5%	≤5%
4-Ball EP, Weld Load, kgf	500	620
Temperature Range (temporarily), °C	-20/+130 (140)	-20/+130 (140)

These characteristics are typical of current production. While future production will conform to Shell specifications, variation in these characteristics may occur.