Shell MALLEUS® Grease OGM Heavy Special Purpose Open Gear and Wire Rope Grease

Shell MALLEUS® Grease OGM Heavy is primarily designed for use in very heavy applications, and operations under severe conditions, in mining equipments, shovels, draglines and excavators in open cut operations. Open Gear Lubricant for ball mills and kilns.

Shell MALLEUS® Grease OGM Heavy is based upon an aluminum Complex soap thickener dispersed in a high viscosity, very high quality mineral base oil containing enhanced extreme pressure – antiwear chemistry.

Performance Features and Benefits

Excellent load carrying capacity under severe operation conditions

Grease contains selected components to ensure excellent resistance to shock and permanent heavy load

Very high mechanical and thermal stability
 Grease thickener structure is designed to resist

mechanical stress and high temperature
Withstanding severe operation conditions

- Withstanding severe operation conditions like dust and dirt contamination, water, changes in temperature
- Maintain adhesive characteristic over time
 Thanks performing and advanced polymere technology ensuring durable protection. Forms a dark coating on metal surfaces that is adhesive and highly water resistant
- Low Friction

Selected components ensure low friction characteristics, lower energy consumption and wear reduction

• Environmental compliance

Shell MALLEUS® Grease OGM Heavy is not formulated to contain chlorinated solvent or lead

Main Applications

- Open gears on draglines, shovels, excavators, stackers and reclaimers
- Sticks
- Circle Rail and rollers
- Heavely loaded, slow moving antifriction bearings
- Bushings
- Slow moving wire rope

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

Operation Temperatures:

From 0°C up to +50°C

Specification, Approvals, and Recommendations

Shell MALLEUS® Grease OGM Heavy is designed to meet following specifications:

Bucyrus SD 4713

P&H 464 Ver 09, 04-93

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.

Grease 250

Typical Physical Characteristics

Shell MALLEUS® Grease	OGM Heavy
NLGI Consistency	0
Color	Black
Soap Type	Al Complex
Base Oil (type)	High Quality Mineral
Solid Lubricant	Yes
Base Oil Viscosity @ 40°C, cSt @ 100°C, cSt (IP 71/ASTM-D445)	4000 125
Cone Penetration Worked @ 25°C, 0.1 mm (IP 50/ASTM-D217)	355-385
Dropping Point °C (IP 132/ASTM-D566-76)	190
Four Ball Test, kg (IP 236)	800
Four Ball Wear Scar, mm (ASTM D 2266)	Max 0.7
Four Ball Load Wear Index (LWI) kg (ASTM D 2596)	120
FZG A/2.76/50 (DIN 51354) Load Stage pass	12
Rust Test (ASTM D 1743)	Pass
Copper Strip 3h @ 100 °C (ASTM D 4048)	1Ь

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

251 Grease