SHELL ALBIDA® GREASE MP 1

Lithium complex grease

Product Description

Shell Albida® Grease MP 1 is a lithium complex grease containing an ISO 460 base oil and special additives to provide outstanding load carrying and water resistance properties.

Product Application

Shell Albida® Grease MP 1 is intended for use in heavily loaded equipment operating under adverse conditions. It is especially suitable for grease lubricated bearings on paper machines where its outstanding water resistance characteristics, EP properties, oxidation stability, high dropping point and corrosion resistance eliminate the need for separate greases in the machine's wet end and felt roll bearings. It will also lubricate highly loaded bearings in the press section. The performance characteristics of **Shell Albida® Grease MP 1** which made it successful in the paper making industry have also enabled it to be used successfully in the steel industry. The product performs well in roll neck bearings using both sealed and automatic lubrication systems.

The outstanding combination of load-carrying ability and water resistance makes **Shell Albida® Grease MP 1** an excellent product for the "buddy bearings" commonly found on boat trailer wheels. **Shell Albida® Grease MP 1** is one of the most highly water resistant greases in the Shell grease line.

Features/Benefits

- formulated using an ISO 460 base oil and special polymer additives to provide maximum load carrying ability
- outstanding water resistance
  - **heavy base oil for excellent film strength**
- EP characteristics for improved wear protection
- rust protection

Approvals and Recommendations

- heavy duty industrial applications, especially where excessive exposure to water is a problem
- for use in paper and steel mill applications
- severe service applications found in the construction, mining, and forestry industries

Product Maintenance

In centralized systems, appropriate heavy-duty equipment is required for handling **Shell Albida® Grease MP 1** because of its heavy base oil and polymer combination. Maintaining a clean work environment is critical when equipment greasing is performed. Grease fittings should be wiped clean prior to grease injection to prevent contaminants from entering the equipment. Bearing housing should be maintained one-third to one-half full of grease. Over-greasing should be avoided as excessive heat build-up can result. Periodic relubrication via grease gun or centralized system should be supplemented by complete cleaning and packing with fresh grease on an appropriate schedule. Shell greases are available with drum liners to facilitate container disposal.

Typical Properties of Shell Albida® Grease MP 1

	Test Method	
Product Code		71165
NLGI Grade		1
Appearance		Black, Tacky
Base Oil Viscosity @ 40°C, cSt @ 100°C, cSt	 D 445 D 445	 430 29.5
Penetration, dmm Worked, 60X Worked, 10,000X, % Change	 D 217	 325 10
Dropping Point, °F	Mettler	450+
Rust Protection EMCOR, 5% SSW	 D 6138	 Pass (0)
Copper Corrosion	D 4048	1b
Water Spray-Off, wt%	D 4049	28
Water Washout wt% loss at 100°F wt% loss at 175°F	D 1264	 3.5 8.7
Wheel Bearing Life, hrs	D 3527	140
Timken, OK Load, lbs	D 2509	50
Four-Ball EP Load Wear Index, kgf Weld Point, kgf	D 2596	 68 400
Four-Ball Wear, mm 1 hr, 75°C, 1200 rpm, 40 kgf	D 2266	0.4
Grease Mobility, g/minute 0°F 20°F 40°F	U.S. Steel Method	 1.2 6.8 33.6
Guide To Usable Temperature Min, °F Continuous Service, Max, °F Short Exposure, Max, °F		 0 325 450

Handling & Safety Information

For information on the safe handling and use of this product, refer to the Material Safety Data Sheet at **http://www.shell-lubricants.com/msds/.** If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please **call 1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: **http://www.shell-lubricants.com/.**