SHELL ALBIDA® GREASE WR 1

Lithium complex grease for heavy-duty industrial applications

Product Description

Shell Albida® Grease WR 1 (formally **Shell Albida® Grease HD 1**) is a specially formulated lithium complex grease containing high viscosity mineral oils for heavy-duty industrial applications. It contains additive packages that promote oxidative stability, and outstanding resistance to water spray off. It is suitable for high temperature, heavily loaded bearings in very wet environments, such as steel mills and paper mills.

Applications

- heavy duty bearings in high temperature and wet environments
- designed to provide exceptional mobility in centralized lubrication systems

Features

Shell Albida® Grease WR 1 was formulated to provide protection for heavily loaded bearings in the high temperature and wet environment of the steel mill. Highly refined mineral oil blends provide the basis for a base oil that will provide the film strength needed to protect heavily loaded bearings. **Shell Albida® Grease WR 1** contains lithium complex thickeners that provide thermal stability at high temperatures. Since many steel mill applications contain centralized lubrication through unheated transfer lines, this lithium complex grease has been formulated to have exceptional mobility as measured by the USS Mobility Test. Under these conditions, mobility @ 0 F (-17.8 C) is 3 to 5 g/min.

Water resistance is also of paramount importance in many steel mill applications. ASTM D 4049 water spray off is geared toward providing a measure of this property. **Shell Albida® Grease WR 1** has been formulated to provide better than 15 wt. % spray off at 100°C.

Benefits

- promotes long bearing life
- excellent high temperature properties and oxidation stability
- exceptional water resistance
- outstanding low temperature mobility

Approvals and Recommendations

- suitable for use in heavy duty industrial equipment
- adverse conditions, such as high temperature
- heavy and continuous shock loading
- used in centralized grease systems and in manual greasing applications

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Product Maintenance

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 housings should be maintained one-third to one-half full of grease. Over-greasing should be avoided as excessive heat buildup 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 in lined containers to facilitate disposal in compliance with local regulations.

Typical Properties of Shell Albida® Grease WR 1

	Test Method	
Product Code No.		71163
NLGI Grade		1 ½
Appearance		Black, tacky
Texture		Smooth
Thickener		Lithium Complex
Base Oil Viscosity @ 40°C, cSt @ 100°C, cSt	 D 445 D 445	 430 29.5
Penetration, dmm Worked, 60X	D 217	300
Dropping Point, °F	Mettler	450+
Four-Ball Wear, mm 1 hr, 75°C, 1200 rpm, 40 kgf	D 2266	0.48
Water Spray-off, wt%	D 4049	10
Copper Corrosion	D 4048	1a
Oxidation Stability, 100 hr	D 942	4
Mobility, g/min @ 0°F @ 20°F	USS Method	 5.4 25
Guide to Usable Temperature Min, °F Continuous Service, Max, °F Short Exposure, Max, °F		 -30 325 450

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/.**

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