



SHELL MALLEUS[®] COMPOUND 0

Sprayable lithium thickened open gear lubricant

Product Description

Shell Malleus[®] Compound 0 is a sprayable lithium soap thickened open gear lubricant which is chlorinated and solvent free.

Application

Shell Malleus[®] Compound 0 is primarily intended for gear applications where design prevents the use of a flood type lubrication system in a tight, leak-free enclosed gearbox. Intermittent spray or hand application of a heavy adhesive type lubricant is instead employed to provide the necessary lubrication of the gears. Often these gear sets are slow speed, large diameter, heavily loaded units where the lubricant minimizes or eliminates excessive wear by preventing metal-to-metal contact at the gear tooth mesh. It is suitable for use where ANSI/AGMA 14R and 15R lubricants are recommended and lubricant application can be a pressurized delivery system or hand application. Typical applications include open ring gear and pinion drives, reduction gearing of kilns, furnaces, ball and roll mills, chemical agitators and mixers, crushers, pulverizers, drum-dryer drives, presses and grinders. It is also suitable for exposed pump drives, chain and sprocket drives, fifth wheel, turn tables, dipper sticks and fork lift rails.

Features

Shell Malleus[®] Compound 0 is an NLGI 0 lithium grease containing a high viscosity base oil (ISO VG 1000) and fortified with extreme pressure additives, molybdenum disulfide and graphite to provide outstanding wear protection to shock loaded or heavily loaded gears. It contains special tackifiers that provide excellent adhesion to metal parts and resist water wash-off and squeezing out under pressure. This product maintains a “grease-like” consistency over a temperature range of 0 to 300°F. It is chlorinated solvent-free to facilitate disposal of used lubricant in accordance with local, state and federal regulations.

Benefits

- excellent wear protection under adverse conditions
- rust protection of ferrous parts
- resistance to water washout
- good adhesion to metal surfaces

Product Maintenance

Shell Malleus[®] Compound 0 is sprayable using conventional drum pump and spray nozzle equipment designed for fluid lubricant and grease. Such equipment is available from suppliers such as Lincoln, Graco and Falk. Application frequency and duration must be determined by the equipment operator in order to minimize wear. Large open gear tooth wear is not only affected by the lubricant but is also strongly dependent upon proper gear tooth alignment. Proper alignment must be maintained in order to realize maximum gear life.

Typical Properties of Shell Malleus® Compound 0

	Test Method	
Product Code		71209
NLGI Grade		0
Appearance		Black
Texture		Semi-fluid, Tacky
Lithium Soap, wt%		2.0
Solvent		None
Penetration Worked, 60X	D 217	380
Mineral Oil Viscosity @ 40°C, cSt	D 445	1075
@100°C, cSt	D 445	54
@ 100°F, SUS	(calc)	5841
@ 210°F, SUS	(calc)	263
Rust Protection	D 1743	Pass
Four-Ball EP Load Wear Index, kgf Weld Point, kgf	D 2596	100 620
Four-Ball Wear, mm 1 hr, 75°C, 1200 rpm, 40 kgf	D 2266	0.4
Falex Pin & Vee Wear, Total Teeth EP, lbs		36 4500+
Grease Mobility, g/minute 0°F 20°F	U.S. Steel Method	1.0 10.7
Guide To Usable Temperature Min, °F Continuous Service, Max, °F Short Exposure, Max, °F		0 250 300

Handling & Safety Information

For information on the safe handling and use of these products, refer to their Material Safety Data Sheets 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/>.