



SHELL MALLEUS[®] GREASE GL 3500

Premium performance open gear and wire rope grease

Product Description

Shell Malleus[®] GL 3500 is full EP grease developed for the lubrication and protection of open gears subjected to extremes of temperature and operating conditions. Shell Malleus[®] GL 3500 combines high performance with chemistry that helps to minimize the cost of disposal and provides a tenacious film that helps to reduce fling-off.

Shell Malleus[®] GL 3500 provides a durable protective coating to metal surfaces without the use of bitumen, solvents or heavy metals. This film helps to minimize metal-to-metal contact and wear. Shell Malleus[®] GL 3500 contains graphite and MoS₂. The combination of Biolaminate[™] additive with MoS₂ and graphite enhances the separation of extremely loaded gear teeth and creates a durable protective film on the contact surfaces of machine components.

Shell Malleus[®] GL 3500 remains pliable over its work life and resists drying out in gear teeth or shrouds even in extremely dusty conditions. Its excellent antiwear protection help to reduce tooth contact temperatures, reduce gear surface pitting and alleviate stick slip conditions. The use of high viscosity base oils and polymer forms a protective cushion between gear teeth and resists fling off, squeeze out and oil separation. The formulation is water resistant and resists water “wash off” by immersion or spray.

Applications

- lubrication of grinding mills and kilns
- lubrication of static and slow moving wire ropes including those intermittently immersed in salt water

Features/Benefits

- excellent antiwear performance
- excellent load carrying capacity
- water resistant
- lead, bitumen and solvent free
- excellent corrosion protection

Operating Temperature

- -7°C (19°F) to + 100°C (212°F)
- peak temperature of 130°C (266°F)

Typical Properties of Shell Malleus® GL 3500

	Test Method	
Product code		
Drum		5058616
Pail		5058617
NLGI Grade		00
Soap Type	Visual	Alum. Complex
Color		Black
Texture		Tacky
Density at 15.5°C (kg/l)	Gardener Method	1.11
Viscosity		
@ 40°C, cSt	ISO 3104	4060
@ 100°C, cSt	ISO 3104	157
Cone Penetration	D 217	
Worked at 25°C		415
Dropping Point, °C(°F)	IP 396	195(383)
Rust Test	D 1743	Pass
Copper Strip Corrosion		1B
3 Hr @ 100, °C		
Four Ball Weld Load, kg	D 2596	800
Low Temp. Pumpability, °C (°F)		-7 (+19)
Lincoln Ventmeter @ 400 psi		

Dispensing

Shell Malleus® GL 3500 may be applied manually or by conventional centralized automatic lubrication systems.

Handling & Safety Information

For information on the safe handling and use of this product, refer to its 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/>.