



TECHNICAL DATA SHEET

MillGuard™ OPEN GEAR AND BUSHING LUBRICANT

MillGuard™ is a high-viscosity fluid based on petroleum resin. It has extraordinary adhesiveness and extreme pressure resistance. It was developed primarily for use on open gears and heavily loaded bushings.

MillGuard™ is suitable for use on the most severely loaded open gears, such as sugar mills, ball mills, and cement kilns. It contains additives for neutralizing acidity and combating corrosion. The high level of extreme pressure additives prevents the scuffing, pitting, and plastic deformation of metal surfaces that can occur on open gears.

On mill and kiln open gears, MillGuard™ can be applied using either an automatic lubrication system or a sump system, where an oiler wheel drags through the lubricant and deposits it on the pinion. When using a Lincoln or Farval system, the temperature of the product should be kept above 50°F (10°C).

Some open gears are lubricated daily by hand and MillGuard™ can be applied this way. The consistency of the fluid minimizes splashing during application and the product readily forms a coating on the pinion and bull gear. In many cases the interval between applications can be extended.

Highly loaded, slow-moving bushings benefit from both high viscosity and solid lubricants present in MillGuard™. The natural adhesiveness of the fluid ensures low consumption.

BENEFITS:

- REDUCED COST OF LUBRICANT – low consumption.
- REDUCED COST OF MAINTENANCE – extreme pressure additives, plus special lubricating solids reduce wear and extend equipment life.
- EASY CLEAN-UP – does not harden.
- SAFE TO USE – contains no hazardous materials or materials under suspicion of being hazardous.

APPLICATIONS:

Use MillGuard™ on the open gears and bushings of sugar mills and on the open gears of ball mills, kilns, and dryers. It can be used on wire ropes and is especially useful where ropes are exposed to water. It extends the life of the ropes, sheaves (pulleys), and drum lagging.

ASTM #	Grade	TYPICAL CHARACTERISTICS
		Heavy
D-445	Kinematic Viscosity cSt @ 40°C cSt @ 100°C	22,000 370
D-2270	Viscosity Index	112
Gardner Method	Density, lb/gal @ 60°F (15.5°C) Specific Gravity, g/cc @ 60°F (15.5°C)	8.20 0.987
D-92	Flash Point, °F (°C) Pensky Martens Closed Cup	>350 (177)
D-2783	Four Ball EP Weld Point, kg	800
D-4172	Four Ball Wear Scar Width, mm @ kgf	0.45
OEM Standard	Low Temperature Pumpability Lincoln Ventmeter @ 400 psi, °F (°C)	40 (4)

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

PACKAGING

Shuttle Tanks	Nonreturnable Totes	Drums	Kegs	Pails
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THE WHITMORE MANUFACTURING COMPANY

930 Whitmore Drive • P.O. Box 9300 • Rockwall, Texas 75087 • USA • (972) 771-1000 • Fax: (972) 722-2108
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