



# Orelube®

**technical  
information**

## Wire Rope Lube 4K

### Description

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Orelube Wire Rope Lube 4K is a smooth, heavy duty black lubricant for wire rope, open gears and chains. Being *extremely adhesive* and *tacky*, it provides longer lasting protection than conventional lubricants. Wire Rope Lube 4K provides more positive gear lubrication because it is pulled around the gears faster and more completely by the moving teeth.

Wire Rope Lube 4K will lubricate and protect wire rope used in dredging and lifting equipment, elevators, road machinery, drag lines and other equipment. Wire rope is subjected to severe internal friction caused by the compression of the inner strands and tension of the outer strands about the mean diameter of the wire. The outer strands usually wear because of the friction of the sheaves. This condition is usually detected before breakage occurs that may cause any serious damage. The inner strands usually fail due to corrosion.

To properly lubricate a wire rope, the lubricant must reach the inner wires and remain in place to protect the wires against tension, corrosion and wear because of friction of the sheaves. Deterioration of wire rope generally starts on the inside near the core and progresses unnoticed until failure. Failure, therefore, occurs frequently without warning.

Wire Rope Lube 4K will prolong the life of wire rope and support cables. It provides extreme pressure characteristics for heavy duty applications. It has polar (metal wetting) attraction for maximum penetration to the core of the largest size rope protecting against rust, corrosion and wear. Its water displacing property provides a positive film on all rope surfaces.

Wire Rope Lube 4K can be applied by brush, dip feed, spray or automatic lube system. To make application easier and improve the penetrating ability of this lubricant, a solvent is used. After application, the solvent evaporates leaving a tough, viscous lubricating and protective film.

### Benefits

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- Penetrate to rope core
- Keep rope clean
- Keep rope flexible - provide lubrication between pulleys or sheaves and wire rope
- Extend rope life - protect against rust and corrosion due to salts, acids, water and moisture
- Decrease sheave wear and increase drum life
- Contains additives that impart EP lubricating properties and improved rust protection

## Typical Properties

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Flash point, COC, C (F) (without solvent)	232 (450)
Flash point, PM, C (F) (with solvent)	81 (178)
Pour point, C (F) (without solvent)	10 (50)
Pour point, C (F) (with solvent)	-3 (27)
Viscosity, without solvent cSt @ 100 C SUS @ 210 F	590 2960
Viscosity, with solvent cSt @ 40 C cSt @ 100 C SUS @ 100 F SUS @ 210 F	4070 96 24,200 474
Density @ 15.6 C, lb/gal (with solvent)	8.13
Timken OK load, kg (with solvent)	13.6