

## Ultra EP Open Gear Lube

*... Unexcelled performance in open gear lubrication*

SWEPACO 164 Ultra EP Open Gear Lube has been specifically formulated to meet the unique challenges of lubricating a wide range of exposed gears, including swing gears on cranes, ring gears on rotary kilns, gearing on draglines and in quarries, foundries and many other operations.

### **Superior protection for heavily loaded exposed gearing**

Advanced overbased complex calcium sulfonate gelling chemistry delivers exceptional load carrying characteristics. This state-of-the-art gelling system also yields superior mechanical stability, an inherently high dropping point, reduced wear and excellent resistance to water and corrosion.

### **Unsurpassed EP Performance**

Open gearing, particularly large applications such as ring gears on rotary kilns and finishing mills, swing gears on cranes and jacking gears, need a lubricant that can withstand extreme loads. With a Timken OK load rating of 60 pounds and a 1000 kg 4-Ball Weld load rating, SWEPACO 164 provides the extra protection these types of gears require.



**Open gearing, such as this huge ring gear that drives this rotary cement kiln, pose special lubrication challenges ... SWEPACO 164 solves them.**

### **Superior corrosion protection**

Superior corrosion protection and resistance to water wash out makes it suitable for marine applications and other applications that present high exposure to water.

### **Reduced consumption**

Many lubricants “sling off” gear teeth and other parts of operating equipment. This is especially true when equipment operates at high speed. SWEPACO 164 clings tenaciously to metal, increasing the level of protection and reducing consumption. Consumption is also reduced by an extraordinarily high dropping point of greater than 580° F (300° C) that prevents thinning and bleeding. And inherently high mechanical stability keeps SWEPACO 164 “in grade” longer. These properties typically result in a significant reduction in lubricant consumption.

## Ease of application; less cleanup

SWEPCO 164 is far superior to conventional asphaltic materials which are difficult to handle in cold temperatures, create problems with “build-up” on gears and require frequent cleaning of gears to prevent pressure build-up or uneven tooth wear. SWEPCO 164 does not build up or pack between gear teeth. It will not melt or run. Nor does it become soluble in water; so it stays on gear teeth longer, provides more protection from rust and extends lubrication intervals.

## SWEPCO 164 saves money

Due to superior performance, users of SWEPCO 164 enjoy superior protection, longer greasing intervals, longer equipment life, fewer repair bills and more uptime.

## Recommended for a wide range of applications

SWEPCO 164’s outstanding performance makes it suitable for use in applications in steel mills, lumber mills, stevedoring, sand and gravel companies, offshore platforms and marine work ships, contractors, loggers, cement plants, excavating contractors, mines, farmers, industrial plants and a wide range of other heavy-duty applications.

Recommended for rotary kiln ring gears, crane and shovel swing gears, draglines, chain and sprocket drives, wind gears, conveyer equipment, winch trucks, rock crushers, hoists, logging donkeys, saw mill machinery and any other types of open or outside gearing found in construction equipment and plant machinery. Also suitable as a fifth wheel lubricant.

## Typical Physical Properties

N.L.G.I. Classification .....	#2
Penetration, 60 strokes @77°F .....	265-295
Timken OK Load, lbs. (ASTM D2509) .....	60
Four Ball EP Test (ASTM D2596)	
Weld Load, kg .....	1000
Load Wear Index .....	66
Dropping point, °F (°C)	
(ASTM D2265) .....	>586 (>308)
Base Oil Viscosity, cst @40°C .....	2855
Base Oil Viscosity, cst @100°C .....	177
Base Oil Viscosity Index .....	172
Base Oil Pour Point, °F (°C)	
(ASTM D97) .....	10 (-12)
Color .....	Gray
Texture .....	smooth, very tacky
Rust & Corrosion	
(ASTM D1743) .....	Pass
Copper Corrosion (ASTM D130) .....	1a
Water Spray Off, % Retained	
(ASTM D4049) .....	95.49
Oxidation Stability, PSI Drop, 100 hrs	
(ASTM D942) .....	5
Lincoln Ventmeter, psi @ 30°F .....	1000
Lincoln Ventmeter, psi @ 74°F .....	450
Optimum Operating Temperature Range	
°F (°C) .....	+10 to +475 (-12 to +246)



**A Product of SPX Technology™.**

... the cutting edge performance SWEPCO  
Customers have come to expect.



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