

# SUPERIOR ULTRA HEAVY EP

## HEAVY DUTY, HIGH-PERFORMANCE GREASE

**SUPERIOR ULTRA HEAVY EP** is a lubricating grease designed for use in heavily loaded, slow-moving bearings in either wet or dry environments. An important application for this grease is in steel mill roll stand bearings, where the major concerns are water and high load.

The thickener used in SUPERIOR ULTRA HEAVY EP is calcium sulfonate complex, which provides excellent resistance to water and steam. This is augmented by the addition of a synthetic polymer and the use of a high viscosity base oil. SUPERIOR ULTRA HEAVY EP repels water in a way that few greases can however, if water gets past the seal the grease will not soften. It will continue to lubricate despite water content as high as 20%. This would turn conventional greases to liquid.

The extreme pressure capability of SUPERIOR ULTRA HEAVY EP is outstanding as indicated by the weld load of 800 kg on the Four Ball Extreme Pressure test. This translates into longer bearing life under difficult operating conditions such as slow speed, high load, shock impact and reversing action.

### BENEFITS:

- **HIGH LOAD CARRYING** – prevents scuffing of metal under difficult conditions.
- **WATER RESISTANT** – resists being diluted by water. Helps keep water out of the bearing by forming a ring of stiff grease at the seal.

### APPLICATIONS:

SUPERIOR ULTRA HEAVY EP is recommended for use in roll stand bearings and conveyor bearings found in steel mills. It is also very suitable for paper machine bearings, including wet end bearings. Use SUPERIOR ULTRA HEAVY EP in pump bearings, especially pumps for caustic or acidic fluids.

SUPERIOR ULTRA HEAVY EP may be used up to 300°F (150°C).

ASTM #	CHARACTERISTICS			
	Grade	1	1.5	2
<b>D-217</b>	<b>Cone Penetration, (Worked)</b>	310-340	290-310	265-295
<b>D-2265</b>	<b>Dropping Point, °F (°C)</b>	>580 (304)	>580 (304)	>580 (304)
<b>D-445</b>	<b>Kinematic Viscosity</b>			
	cst @ 40°C	1224	1224	1224
	cst @ 100°C	61	61	61
<b>D-1264</b>	<b>Water Washout, % Loss</b>	<2	<1	<1
<b>Gardner Method</b>	<b>Density lb/gal @ 60°F (15.5°C)</b>	8.19	8.19	8.18
	<b>Specific gravity g/cc @ 60°F (15.5°C)</b>	0.9834	0.9834	0.982
<b>D-2596</b>	<b>Four Ball EP Weld Point, kg</b>	800	800	800
<b>D-2266</b>	<b>Four Ball Wear Scar Width, mm @ kgf</b>	0.56	0.56	0.56
	<b>Thickener Type</b>	Calcium Sulfonate Complex	Calcium Sulfonate Complex	Calcium Sulfonate Complex
<b>OEM Standard</b>	<b>Low temperature Pumpability</b>			
	Lincoln Ventmeter @ 400 psi, °F (°C)	34 (1)	--	60 (16)

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