



## EP 1004



EP 1004 is a state-of-the-art, high performance grease that utilizes calcium sulfonate thickening system. This grease possesses exceptional mechanical stability, very high load carrying properties, excellent thermal stability and particularly excellent resistance to water and corrosion.

### ***Applications***

Heavy-duty steel mill applications, paper mills, mining.

### ***Special Features***

Uses a high grade mineral oil for improved life and contains a polymer for improved spray-off resistance. Available in all NLGI Grades, to a minimum cone penetration of 240 mm/10 (Grade 3). Performance data may vary between grades.

## SPECIFICATIONS:

NLGI Grade	2	1
Colour	green	green
Texture	smooth	smooth
Consistency, ASTM D217, worked penetration, mm/10	280	325
Dropping Point, ASTM D2265	300°C / 572°F	300°C / 572°F
Low Temperature Capability/pumpability	-30°C / -22°F	-32°C / -25°F
Base Oil Viscosity		
@ 40°C cSt.	208	208
@ 100°C/212°F, cSt	17.8	17.8
<b>Extreme Pressure/Wear Performance</b>		
Timken OK Load, ASTM D2509	30 kgs / 67 lbs	29.5 kgs / 65 lbs
4 Ball EP, ASTM D2596		
load wear index	62 Kgs / 137 lbs	53.94 Kgs / 118.92 lbs
weld point	500 Kgs/1102.31lbs	400 Kgs / 881.85 lbs
4 Ball Wear, ASTM D2266 (scar diameter)		
40 kg, 1200 rpm, 75°C/166°F, 1 hour	0.38 mm	0.42 mm
<b>Leakage/Separation Characteristics</b>		
Oil Separation, ASTM D1742, mass	0.2%	0.2%
Wheel Bearing Leakage, ASTM D4290	4.0 grams	4.0 grams
<b>Corrosion Resistance</b>		
Rust Test Rating, ASTM D1743	pass	pass
Salt Fog, ASTM B117, hours to failure, 1 mil dft	> 300	> 300
<b>Oxidation Resistance</b>		
Bearing Life, ASTM D3527	120 hours	120 hours
Bomb Oxidation, ASTM D942, psi drop after 1000 hours		9.0 psi 9.0 psi
<b>Stability</b>		
Worked Stability, ASTM D217, % change from baseline		
worked 100 000 strokes	2.3	2.3
worked 10 000 strokes with 50:50 water mixture	7.9	7.9
Shell Roll, ASTM D1831, % change from baseline	3.7	3.7
<b>Water Performance</b>		
Water Wash Out, ASTM D1264, 79°C/173°F	0.16%	0.74%
<b>Low Temperature Properties</b>		
Low Temperature Torque, ASTM D4693 @ -40°C, NM	12	N/A

Disclaimer: The temperature limits, pH ranges, pressure ratings, feet per box and shaft speeds shown throughout this pamphlet are representative; the service life and performance of these products can be affected by elevated temperatures and other operating conditions such as chemical resistance, shaft speeds, pressure and equipment in which that the product is being installed. The ratings supplied are suggested as a guideline and should only be used for evaluating your specific application. When in doubt, contact Robco or your ENVIROPAK distributor. *The information contained in the pamphlet should not be considered to be a warranty, expressed or implied, including, but not limited to, a warranty of merchantability or fitness for a particular purpose. In no event shall Robco be liable for any incidental or consequential damages resulting from the use, misuse or inability to use the products.* This exclusion applies regardless of whether such damages are sought based on breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory.