CobraTM Solid Lubricants

Cobra[™] is a dry, graphite based, oil free lubricant specially formulated for a wide array of bearing applications.

Cobra[™] lubricant fills all the space between the inner and outer race, and becomes a permanent part of the bearing.





Features & Benefits

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Dry lubricated bearings offer the following benefits over Grease and Oil Lubrication:

- Consistent, Permanent Lubrication over the life of the bearing resulting in very Low Maintenance.
- Exceptional high temperature capability
- Certified NSF H1 Food Grade
- Water, Steam, and Chemical Resistance
- Will Not Wash Out of the bearing even with solvents
- Low Torque, Free Spinning
- Effectively seals against Dust, Dirt and Debris
- No Outgassing in a vacuum
- Excellent Resistance to Radiation

Performance

- Cobra[™] is more cost effective and longer lasting than competing high temperature Lubricants.
- Cobra[™] is environmentally safe
- Cobra[™] can help reduce operating costs, extend maintenance intervals and improve equipment reliability.



The Cobra[™] material is molded around the ball and retainer assembly



Primary Metals

- High Temperatures, Water, Chemical and Debris Resistance
- Roller Hearth Furnaces, Continuous Casters, Cooling Beds, Table Rolls, Torch Cars, Crane Wheels

Food & Beverage

- Bakeries, Meat Processing, Beverage
- Food Grade, High Temperatures, Low Temperatures, Wash Down, Chemical Resistance, Debris Resistance
- Ovens, Conveyors, Bottling, Packaging, Mixing

Automotive

- High temperature, chemical resistance, low maintenance
- Paint line, powder coating and E coat conveyor systems roller turn rolls, conveyor trolley wheels, load bar carriers and in floor inverted carriers
- Collaboration on all system requirements including chain and carrier assemblies refurbishing
- Curing ovens
- Wash tanks
- Parts conveyors

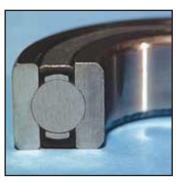
Paper, Printing & Media

- Low Torque, Low Wrap, Non Dripping, Compatibility with Ink, Low Maintenance
- Idler Rolls, Dancer Rolls, Accumulators, Calendering, Curing Ovens, Adhesives

Mining and Aggregate

- Water, dust and debris resistance, low maintenance
- Separators
- Clinker chain
- Conveyors
- Kilns
- Head shaft and tail pulley mounted units
- Bucket elevators





Ball Bearings

Single Row Double Row Self Aligning Angular Contact Banded Thrust Thin Section



Mounted Units

Pillow Blocks Flange Blocks Inserts Type E ER Series Take-Ups Hangers Split Bore



Sphericals Cylindricals Tapers Split Bores Berliss Thrust Units Cam Followers

Roller Bearings



Specialty Units*

Overhead Trolleys Free Trolleys Roller Turn Rolls Hex Bores

Processing Requirements

Most bearings processed with CobraTM require a stamped steel cage. CobraTM is not suitable for use with polymer cages. For applications with bronze cages, contact a UTA representative.

Special Applications

Stainless Steel - Cobra[™] Lube installed in a stainless steel bearing can provide a powerful combination in wash down applications and highly corrosive environments. If a stainless steel bearing is not available, Cobra Blue[™] may be an alternative solution.

*Ideal for Paint Booths, finishing lines, powder coating lines and other material handling applications. Eliminate costly lube systems, reduce product defects, never re-lube, reduce wear and lower energy consumption.



Formulations

- CSL is formulated for 3 temperature levels, CSL250, CSL450, and CL660** - NDM Speed Factor of 80,000.
- EP additive provides an enhancement of the lubricant within the bearing and is highly recommended for tapers, sphericals, and higher speed applications NDM Speed Factor of 120,000.
- EPN consists of the EP additive combined with Nano sized particles of Tungsten Disulfide. Recommended for higher load and higher speed applications - NDM Speed Factor of 160,000.
- Molybdenum Disulfide for applications where motion is occurring in the presence of a vacuum. Specified as CSL250-V, CSL450-V & CSL660-V.

**Please note: 660°F is a continuous rating, CSL660 has a practical limit of 1200°F with very slow degradation over time.



Limitations

- Cobra[™] is an engineered solution and not suitable for every application. Please contact a UTA representative to see if Cobra[™] will work for your application.
- Speed (RPMs) is the primary factor in determining suitability for the application.
- Impact load to the bearing as in improper bearing installation may contribute to an unacceptable application.
- Extreme temperature applications may require a bearing to have an increased internal clearance to address thermal expansion.
- If corrosion is found to be the primary cause of failure with conventional lubricants CSLs are not a corrosion inhibitor.
- Cobra Blue[™] (ferritic nitrocarburizing) offers high surface hardness, improved fatigue and wear resistance and offers exceptional corrosion resistance to treated bearings where corrosion is a concern.



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