

## VORTEX™ COUPLING GREASE

Whitmore's Vortex™ Coupling Grease is a tacky, lithium-polymer thickened grease specifically formulated for long term lubrication of greased mechanical couplings including gear tooth, chain type, and steel grid designs. Vortex™ may be used in couplings of any size and at high speed.

Results of the high-speed centrifugal test (ASTM D-4425) have shown that the dual thickener used in Vortex™ permits only miniscule oil separation even at 15,000 rpm. Oil separation is the major cause of lubricant failure in couplings.

Robust anti-wear and extreme pressure additives in combination with a high viscosity fluid assure protection from abrasive wear that is generated by low amplitude, high frequency rubbing motion common to industrial couplings.

Vortex™ can be used to lubricate slow moving, heavily loaded bushings, especially where water contamination exists. It is also recommended for pressurized wire rope lubrication devices. Supplemental heat may be required in order to facilitate pumping at temperatures below freezing. Do not use in rolling element bearings (ball bearings, roller bearings etc) without first consulting Whitmore's Technical Services Dept. at 972-771-1000, ext. 274.

### BENEFITS:

- REDUCED DOWNTIME - no unscheduled downtime due to lubrication failures.
- HOUSEKEEPING - no oil leakage, even where seals are imperfect.
- LONG LIFE - extended grease life gives an extra measure of security and reduces maintenance labor.
- ALL COUPLINGS - one product can be used for all sizes and speeds, including areas of water contamination.
- TEMPERATURE RANGE – Usable from -20° F to 300° F (-30° C to 150° C)

### APPLICATIONS:

Use Vortex™ in all sizes of gear, chain and grid type couplings, where grease is the recommended lubricant. Typical manufacturers include Fast's, Koppers, Lovejoy, Falk, TB Wood's, and Browning. Vortex™ can be used at all speeds found in industrial applications and also in the presence of water and steam. Also suitable for slow-moving bushings and greased wire ropes. Vortex™ meets the requirements of AGMA CG-1, CG-2, and CG-3 for coupling grease.

ASTM #	Grade	Typical Characteristics
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D-217	Cone Penetration, Worked	315-345
D-2265	Dropping Point, °F (°C)	480 (249)
D-445	Kinematic Viscosity (base oil) cSt @ 40°C cSt @ 100°C	390 28
Gardner Method	Density, lb/gal @ 60°F (15.5°C) Specific Gravity, g/cc @ 60°F (15.5°C)	7.48 0.89
D-2509	Timken OK Load, lb	>40
D-2596	Four Ball EP Weld Point, kg Load Wear Index, kg	315 46
D-2266	Four Ball Wear, Scar Width, mm	0.50
D-4049	Water Spray-Off, % Loss (Standard at 40 psi, 5 min., 100°F)	2.9
D-1743	Rust Test	Pass
D-4048 (Modified)	Copper Strip Corrosion 212°F (100°C) @ 3 hrs	1B
	Usable Temperature Range, °F (°C)	-20 (-30) to 300 (150)
D-4425	Oil Separation, Kopper Method, K36 @ 24 hrs, % Loss	<1
D-942	Oxidation stability, psi drop	<5
	Thickener Type	Lithium and Polymer

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

### PACKAGING

Drums	Kegs	Pails	Cartridges 50 Per Case
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For warranty information, scan the QR code.  
You can also email us at [sales@whitmores.com](mailto:sales@whitmores.com)  
Or write to the Sales Department at the address below.

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