

TECHNICAL DATA SHEET

GearMate® 1000 ICT EXTREME-SERVICE OPEN GEAR LUBRICANT

Whitmore® GearMate® 1000 ICT is formulated for use on open gears and other severe open applications on draglines and mining shovels. It is also highly recommended for the open gears of kilns and ball mills, including the most severely loaded, also in the gearboxes of traction motors found on older locomotives. Whitmore GearMate 1000 ICT meets the demand for an open gear lubricant that deposits a dark, non-transparent coating on metal. The dense black coating lets the operator know that the lubricant is in place at the right quantity.

Whitmore's blend of solid and oil-soluble anti-wear additives provides superior load carrying ability and high-performance wear resistance in an environmentally safe package.

Whitmore GearMate 1000 ICT has a thickener structure that inherently resists emulsification with water and has excellent mechanical and thermal stability. A specially selected polymer allows the lubricant film to maintain its adhesive characteristics under varying temperature conditions.

Meets the requirements of Caterpillar specification SD 4713. "Super Heavy" is suitable for CAT Shovel Hoist Drum Gears (specification SD 4713 revision June 2011). The Heavy grade has been approved by the Passenger Rail Agency of South Africa for use in traction motor gearboxes that use a semi-fluid grease.

BENEFITS:

- TCLP-SAFE passes the EPA Toxicity Characteristic Leaching Procedure. This means that the product is free of heavy metals and ozone-depleting solvents.
- WILL NOT EMULSIFY IN WATER ideal for applications and components exposed to rain, ice, and snow.
- EXTREME LOAD-CARRYING ABILITY protects during shock loading against scuffing and seizure.
- REDUCED INVENTORY in many climates a single grade can be used year-round.

APPLICATIONS:

Whitmore GearMate 1000 ICT is recommended for a variety of applications on mining draglines and shovels including open gears, sticks, circle rails and rollers, bushings and large, heavily loaded bearings.

Whitmore GearMate 1000 ICT is also highly suited for use on open gears of kilns, ball mill, and similar rotating equipment. It is especially recommended where high load and inadequate protection have resulted in pitting and scuffing of gears.

ASTM#		TYPICAL CHARACTERISTICS				
		Arctic	All-Season	Light	Heavy	Super Heavy
	NLGI Grade	000	00	0-00	0	0-1
D-445	Kinematic Viscosity (Base Oil with Polymer) cSt @ 40°C cSt @ 100°C	1,900 	1,900	1,900 	4,123 165	6,500 254
Gardner Method	Density, lb/gal @ 60°F (15.5°C) Specific Gravity, g/cc @ 60°F (15.5°C)	8.50 1.0185	8.33 1.0000	8.38 1.0060	8.33 1.0002	8.55 1.0300
D-92	Flash Point, Cleveland Open Cup Base Oil, °F (°C) Finished Product w/Solvent, °F (°C)	400 (204) 250 (121)	400 (204) 250 (121)	400 (204) 250 (121)	400 (204) No Solvent	400 (204) No Solvent
D-2596	Four Ball EP Weld Point, kg	800*	800*	800*	800	800
D-2266	Four Ball Wear Scar Width, mm	0.70	0.70	0.70	0.70	0.60
D-1743	Rust Test	Pass	Pass	Pass	Pass	Pass
	Thickener Type	Lithium	Lithium	Lithium	Lithium	Lithium
	Oil Type	Mineral	Synthetic Blend	Mineral	Mineral	Mineral
	Usable Low Temperature, °F (°C)	-40 (-40)	-20 (-29)	-10 (-23)	10 (-12)	30 (-1)

^{*} Four Ball EP tested before solvent added

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

PACKAGING

Plastic Totes (Non-returnable)	Drums	Kegs	Pails
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For warranty information, scan the QR code.

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