



Formerly Known As: Whitmore® Gearmate®1000 ICT

Shell Gadus (Gearmate 1000 ICT)

- Extreme Pressure
- Water Resistant
- Multipurpose

Extreme-Service Open Gear Lubricant

Shell Gadus (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.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

Features

Shell Gadus (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.

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

Shell Gadus (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.

Benefits

- 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.

Specifications, Approvals & Recommendations

For a full listing of equipment approvals and recommendations, please consult your local Shell & Whitmore Reliability Solutions Helpdesk.

Main Applications



Shell Gadus (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.

Shell Gadus (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.

Typical Physical Characteristics

Properties			Method	Shell Gadus (Gearmate 1000 ICT)			
				All-Season	Light	Heavy	Super Heavy
NLGI Grade				00 - 000	0 - 00	0	0
Viscosity, Base Oil	@40°C	cSt	ASTM D445	Not Reported	153 - 188	450 - 550	56.7 - 69.3
	@100°C	cSt		Not Reported	11 - 15	33 - 43	25 - 35
Viscosity, Base Oil with Polymer	@40°C	cSt	ASTM D445	Not Reported	NA	3,529 - 4,315	NA
	@100°C	cSt		Not Reported	NA	133 - 164	NA
Density	@60°F	lb/gal	Gardner Method	8.2010	8.2350	8.8652	8.4987
Specific Gravity	(15.5 °C)	g/cc		0.983	0.987	1.062	1.018
Flash Point, Base Oil		°F (°C)	ASTM D92	400 (204)	400 (204)	Not Reported	Not Reported
Four Ball Weld EP, Weld Point		kg	ASTM D2596	620	800	800	800
Four Ball Wear, Scar Width		mm	ASTM D2266	0.70	0.55	0.7	0.60
Rust Test			ASTM D1743	Not Reported	Pass	Pass	Pass
Copper Strip Corrosion		@212°F (100°C)	ASTM D4048 (Modified)	N/A	1B	1B	Not Reported
Thickener				Lithium	Lithium	Lithium	Lithium

These characteristics are typical of current production. Whilst future production will conform to Shell & Whitmore Reliability Solutions specification, variations in these characteristics may occur.

Health, Safety & Environment

Health and Safety

Shell Gadus (Gearmate 1000 ICT) is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from <http://www.epc.shell.com/>

Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

Additional Information

Advice

Advice on applications not covered here may be obtained from your Shell & Whitmore Reliability Solutions representative.