



Shell & Whitmore Reliability Solutions



SHELL Gadus (RailArmor M)

EXTREME-SERVICE RAIL CURVE GREASE

PRODUCT DATA SHEET

Shell Gadus (RailArmor M)

Is an extreme-service rail curve lubricant. The main aim of this project was to greatly increase carry distance down the track or reduce consumption where additional carry has no benefit. Extensive field service has shown that the goal has been achieved.

Shell Gadus (RailArmor M) raises the bar in all critical performance areas such as rail adhesion, rain resistance, wear protection and of course carry-down from the wiping bar. It doesn't spatter when hit by the wheel or form strings that contaminate the area around the wayside.

Extensive field service has shown that the goal has been achieved. One major railroad has reported that he now had grease on sections of track that had never seen grease before. Others reported that coverage could be maintained with grease volume reduced by 50% as compared to other premium rail lubricants.

Shell Gadus (RailArmor M) slumps evenly in the wayside reservoir and does not cause pump cavitation. In the wayside reservoir it moves cleanly down the walls with minimal vortex effect, despite its adhesiveness and robust consistency.

EXTREME-SERVICE RAIL CURVE GREASE

APPLICATIONS:

- Designed to lubricate rail curves, protecting rail and wheels from wear.



BENEFITS:

- RESISTS WATER** - excellent rail adhesion and water resistance.
- CARRY-DOWN** - carries farther than any Whitmore curve grease, or any competitive products that have come to our attention. In areas where additional carry has no benefit, consumption can be reduced by as much as 50%.
- COMPATIBLE** - can be added to wayside tanks that currently contain either lithium or calcium-based greases.
- WEAR PROTECTION** - high content of solid lubricants and oil-soluble anti-wear additives ensures low friction and wear.

TYPICAL PHYSICAL CHARACTERISTICS

ASTM #	Properties	Shell Gadus (RailArmor M)
	Grade	M All-Season
D-217	Cone Penetration (Worked) @25°C	300-315
D-445	Kinematic Viscosity (Base Oil with Polymer) cSt @ 40°C cSt @ 100°C	350 34
Gardner Method	Density, lb/gal @ 60°F (15.5°C) Specific Gravity, g/cc @ 60°F (15.5°C)	8.10 0.9724
D-2596	Four Ball EP, Weld Point, kg	800
D-2266	Four Ball Wear, Wear Scar, mm	0.55
	Usable Temperature Range, Wayside Applicator, °F (°C)	-15 (-26) to 110 (43)
	Thickener Type	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.

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