



# TECHNICAL DATA SHEET

## TRACKMATE® RAIL CURVE LUBRICANT

Trackmate® is a lubricant designed to reduce friction and wear on rail tracks, particularly on curves. It is thickened using lithium soap.

Trackmate® is formulated using anti-wear chemistry in combination with solid lubricants. The solid lubricants used in Trackmate® have been selected to be compatible with automated railroad lubrication systems.

Trackmate® is resistant to water wash off and provides good adhesion.

### BENEFITS:

- **TCLP-SAFE** - which reduces disposal cost. Passes EPA TOXICITY CHARACTERISTIC LEACHING PROCEDURE.
- **REDUCES FRICTION AND WEAR** - extends wheel/rail life and reduces energy cost.
- **EASY TO APPLY** - compatible with automated railroad lubrication systems.

### APPLICATIONS:

Trackmate® can be used in hi-rail, wayside and onboard lubrication systems. Trackmate® is available in pails, kegs, drums, and totes.

Trackmate® is also available through a custom-tailored bulk lubricant system and service program, Maintainer®. This program is designed to fit your operation and structured to provide a complete lubricant management program that meets your needs.

ASTM #		TYPICAL CHARACTERISTICS					
		EP 0 LT	EP 1 LT	EP 0	EP 1	EP 1.5	EP 2
D-217	<b>Cone Penetration</b> (Worked)	355-385	320-350	355-385	305-335	285-315	270-300
D-2265	<b>Dropping Point</b> , °F (°C)	338 (170)	380 (193)	365 (185)	380 (193)	380 (193)	380 (193)
D-445	<b>Kinematic Viscosity</b> (Base Oil w/Polymer) cSt @ 40°C cSt @ 100°C	26.9	27.4	56.5	245.0	245.0	183.0
		4.2	4.3	6.2	19.6	19.6	12.9
D-2161	<b>Saybolt Viscosity</b> (Base Oil w/ Polymer) SUS @ 100°F SUS @ 210°F	140.7	143.1	296.8	1413	1413	1413
		40.4	40.8	47.2	99	99	99
Gardner Method	<b>Density</b> , lb/gal @ 60°F (15.5°C)	8.45	8.40	8.45	8.27	8.28	8.29
	<b>Specific Gravity</b> , g/cc @ 60°F (15.5°C)	1.104	1.100	1.104	0.993	0.994	0.995
D-2596	<b>Four Ball EP</b> Weld Point, kg	500	400	500	400	400	400
D-2266	<b>Four Ball Wear</b> Scar Width, mm	0.67	0.67	0.67	0.60	0.60	0.60
D-4049 (Modified)	<b>Water Spray-Off</b> , % Loss	NA	NA	N/A	12	8	4
D-1743	<b>Rust Test</b>	Pass	Pass	Pass	Pass	Pass	Pass
D-4048 (Modified)	<b>Copper Strip Corrosion for Greases</b> 212°F (100°C) @ 3 hrs	2B	2B	2B	1B	1B	1B
	<b>Ambient Usable Temperature Range</b> , Wayside °F °C	-45 to 30	-30 to 50	-35 to 50	-20 to 50	-5 to 105	40 to 130
		-43 to -1	-34 to 10	-37 to 10	-29 to 10	-21 to 41	4 to 54
	<b>Thickener Type</b>	Lithium	Lithium	Lithium	Lithium	Lithium	Lithium

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

### PACKAGING

Shuttle Tanks	Nonreturnable Totes	Drums	Kegs	Pails
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### THE WHITMORE MANUFACTURING COMPANY

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**LIMITED WARRANTY:** The Whitmore Manufacturing Company makes the Limited Express Warranty that at the date of delivery, its goods shall be free from defects in Whitmore's materials and workmanship and shall meet the express written statements of quality, if any, made by Whitmore in connection with the sale of the goods. Other than such Limited Express Warranty, there are no express warranties made with respect to the sale of goods and all implied warranties existing under the law are expressly disclaimed and negated, particularly, Whitmore NEGATES AND DISCLAIMS THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. All other liability, either in contract or tort, including without limitation, strict liability found in Section 402A of the Restatement of Torts or otherwise, is negated and disclaimed. The sole remedy for Whitmore's breach of such Limited Express Warranty shall be a refund of the purchase price of its goods, and Whitmore shall have no responsibility for incidental or consequential damages sustained as a result of the use of the goods, whether sustained to the goods themselves or to other property. Data listed are subject to usual manufacturing variations.