

SUPERIOR BIO-TRACK

Biodegradable Rail Curve Grease

SUPERIOR BIO-TRACK™ is a next-generation product developed specifically for lubrication of curved rail track. It will protect wheel and rail under a wide range of conditions, from light transit to heavily loaded freight wagons on tight curves.

The high degree of wear protection is achieved by using a special calcium sulfonate complex thickener. The thickener provides extreme pressure protection, making solid lubricants such as graphite unnecessary.

The oil used is a fully biodegradable ester. This allows the grease to easily pass the OECD 301B test for ready biodegradability.

The pumpability of SUPERIOR BIO-TRACK™ in cold climates is excellent. It thickens less than conventional grease due to the temperature stability of the ester oil. This often eliminates the need to switch between summer and winter grades twice a year.

A unique low-temperature polymer improves "carry-down" distance from the applicator and increases adhesion without interfering with pumpability.

BENEFITS:

- **HIGH LOAD CARRYING** – protects rail and wheels from wear under heavy freight conditions.
- **WATER RESISTANT** – will not be removed by rain.
- **GOOD CARRY-DOWN DISTANCE** – a benefit on long curves and multiple curves.
- **WIDE TEMPERATURE RANGE** – one grade can be used year-round in many climates.

APPLICATIONS:

EP 2 and EP 1 grades are for application by trackside (wayside) lubricators and Hi-Rail systems. Use EP 0 or 1 in arctic and sub-arctic areas.

ASTM #	CHARACTERISTICS				
	Grades	EP 0	EP 1	EP 1.5	EP 2
D-217	Cone Penetration, (Worked)	355 - 385	305 - 335	285 - 315	265-295
D-2265	Dropping Point, °F (°C)	500 (260)	500 (260)	500 (260)	500 (260)
D-445	Base Oil Kinematic Viscosity				
	cst @ 40°C	45.0	45.0	55.6	55.6
	cst @ 100°C	9.9	9.9	12.8	12.8
	Base Oil Viscosity Index	215	215	238	238
D-2596	Four Ball EP Weld Point, kg	500	500	500	500
D-2266	Four Ball Wear Scar, mm	0.60	0.60	0.68	0.68
	Thickener Type	Calcium Sulfonate	Calcium Sulfonate	Calcium Sulfonate	Calcium Sulfonate
	Oil Type	Biodegradable Ester	Biodegradable Ester	Biodegradable Ester	Biodegradable Ester
	Color	Dark Brown to Black	Dark Brown to Black	Dark Brown to Black	Dark Brown to Black
	Usable Low Temperature when applied by Trackside Applicator, °F (°C)	-33 (-36)	-10 (-23°C)	0 (-18)	32 (0)

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