

RAIL

High performance, eco friendly
curved rail lubricant
Innovating for tomorrow



TECHNICAL DATA SHEET

Quality Standards:
ISO 9001:2015
ISO 14001: 2015
Issue Date—July 2018
Revision—01

METRO BIO GREASE

Specially formulated for enhanced fire and smoke resistance in tunnels and underground Metros.
NLGI 1.5

Applications

Readily biodegradable, fire resistant, low toxicity curved rail grease for use in Underground and Metro networks and tunnels.

Metro Bio Grease has been designed to meet specific challenges that it will encounter in its application such as temperature range, humidity, environmental protection, load carrying requirement and maintenance intervals.

Suitable for all makes of trackside lubricators.

Features and Benefits

- Corrosion protection
- Conforms to London Underground fire and toxicity requirements
- Enhanced anti-wear properties
- Fire resistant
- Low fume toxicity
- Excellent carry down
- Readily Biodegradable

Typical Characteristics

Appearance	Visual	Smooth
Colour	Visual	Light Beige
Thickener Type		Calcium/Lithium
Temperature Range		-15°C to 120°C
Worked Penetration	IP 50	290—310
Drop Point	IP 396	180°C
Oil Separation (40°C, 168hrs)	IP 121	<4%
4-Ball Wear Scar	IP 239	0.5mm
4-Ball Weld Load	IP 239	400kg
Emcor Corrosion (distilled water)	IP 220	0,0
Copper Corrosion (100°C, 24hrs)	IP 122	1a
Water Spray Off	ASTM D4049	60%
Water Wash Out	ASTM D1264	3.5%

Base Oil Characteristics

Type		Synthetic Blend
Flash Point	IP 34	>300°C



The information contained herein may change. Whilst every care is taken to ensure the accuracy of the material contained in this bulletin, no liability can be assumed for the information given. For specific, current information please contact Clare field sales staff.