

# RS CLARE

High Performance Top of Rail Friction Modifier  
*Innovating for tomorrow*



## TECHNICAL DATA SHEET

Quality Standards:  
ISO 9001:2015  
ISO 14001: 2015  
Issue Date—September 2023  
Revision—01

### ClareShield TOR-WS

Biodegradable Top of Rail Friction Modifier designed to reduce noise, improve steering and reduce rail wear whilst providing a friction coefficient of between 0.35-0.45 at the wheel/rail interface.

#### Description

ClareShield TOR-WS is a water-based biodegradable Top of Rail Friction Modifier designed to consistently provide an optimum friction coefficient at the wheel/rail interface. It's field tested formula optimises friction and reduces flange contact and rail wear without effecting braking performance.

Suitable for use in trackside applicators.

#### Features and Benefits

\*subject to confirmation by testing

This product has been designed to provide the following benefits:

- Long carry down, able to carry up to 4 miles (6.4km) in a freight environment
- Readily Biodegradable, contains no solvents, latex or toxic materials\*
- No product separation/flotation, reducing any risk of hardening and ensuring no pumping issues.
- Consistent performance across a wide temperature range and variety of weather conditions, one product for all seasons
- Reduces high pitched squealing
- Improved steering to reduce noise, wear, and lateral forces
- High performance with low consumption rates
- Does not reduce braking or traction performance
- Non-hazardous and safe for operators to use

#### Typical Characteristics

Test	Method	Result
Appearance	N/A	Semi-Fluid Paste
Colour	N/A	Grey
% Effective Solids Content	N/A	10-20%
Application Temperature Range	N/A	-30 to 80°C
Coefficient of Friction	CEN/TS 15427-2-2 Annex F	0.35-0.45 at 10% SRR

#### Suggested Application Method

To be used in Trackside applicators. Users are advised to run trials to determine the optimum treat rates for their specific conditions, e.g. locations, axle count, axle loads, etc.



*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.*