

High performance Top of Rail friction modifier

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



Why ClareShield TOR-WS™ leads the way for top of rail friction management.



Unrivalled distance coverage
Extended carry down to 4 miles (6.4km) in a freight environment.



Rail head protection
Advanced formulation to resist extreme loads and measurable reduction in lateral forces thus minimising wear.



Cost effective
Low treat rates and stable consistency so it doesn't separate in storage, minimising waste and reduced pumping issues.



All-seasons performance
Provides robust protection in extremes of hot and cold weather conditions, with an operating temperature of -22 to 176°F (-30 to 80°C)



Noise reduction
Improved steering, thereby reducing noise and high-pitched squealing.



Eco-friendly solution
The formula is readily biodegradable, containing no solvents, latex, or toxic materials and is classified non-hazardous.

Details

ClareShield TOR-WS™ is designed to consistently provide an optimum and positive friction coefficient at the wheel/rail interface. It's field tested formula reduces lateral forces and reduces flange contact and rail wear without effecting braking performance. Suitable for use in trackside applicators.

Appearance
Semi-Fluid Paste

Colour
Grey

% Effective Solids Content
10-20%

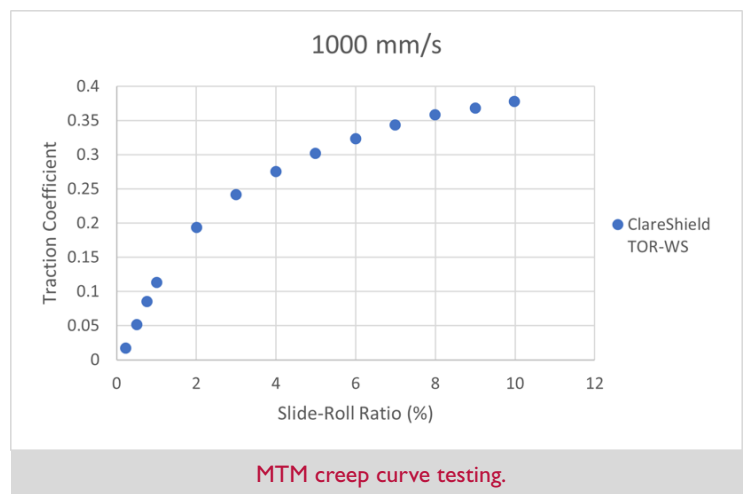
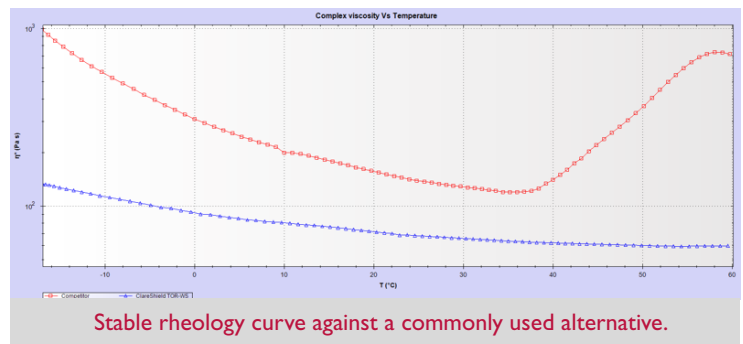
Temperature Range
-22 to 176°F (-30 to 80°C)

Water-based Friction Modifier

In developing ClareShield TOR-WS, RS Clare implemented the latest scientific research and real-world expertise to deliver the next evolution in TOR FM technology. Developed across North America and Europe, performance was directly measured and improved from first-hand experience working in collaboration with Class 1 operators and test site locations to delivered improved performance for more effective use.

Through extensive field trials our formulation and performance were optimised for increased carry-down exceeding other water-based TOR FMs in use, while maintaining a consistent intermediate and positive coefficient of friction at the wheel/rail interface reducing flange contact and rail wear without effecting braking performance and traction.

Safety remains paramount in RS Clare's delivery and an intermediate CoF between 0.3 – 0.4 is factored into the ClareShield TOR-WS design, ensuring braking and traction remains unaffected, as confirmed through repeated real-world testing.



RS Clare listened to the market and noted concerns over separation evident from existing water-based TOR FM technologies. ClareShield TOR-WS dispels these concerns with only minor separation observed during prolonged periods, reducing the risk of hardening and limiting any pumping issues.