



TOR H₂O_x HV Technical Sheet



Description:

TOR H₂O_x HV is a molybdenum based friction modifier that uses water as a carrier. It was developed specifically to address the need for an enhanced water-based top of rail friction modifier for longer carry distances. TOR H₂O_x HV formulation is non-hazardous per OSHA and designed to adhere to the rail. This characteristic allows less material consumption for same benefit as traditional water-based friction modifiers. The formulation also does not require additional agitation to remain stable across a wide temperature range.

Applications:

TOR H₂O_x HV is an all-weather friction modifier for top of rails. It is specifically designed for use with Loram's trackside and switching yard applicators. With controlled application rates, TOR H₂O_x HV reduces lateral curving forces and top of rail friction levels. Main benefits of using TOR H₂O_x HV are increased fuel efficiency, increased rail life, increased safety (reduced derailment forces), and reduced track component wear. TOR H₂O_x HV users benefit from longer carry down distances (4+ miles) thus requiring fewer trackside units and associated operating costs. TOR H₂O_x HV is field tested to carry down 1+ mile in downhill applications.

Physical Properties:

Boiling Point:	>212°F (>100°C)
Specific Gravity:	1.11 – 1.17 (Kg/Liter)
Weight per Gallon (US):	9.24 – 9.75 pounds/gallon (US)
Viscosity:	> 500 cst @ 22°C
Appearance:	Viscous, dark grey to black liquid
Odor:	None
Solubility in Water:	Miscible in water
Incompatibilities:	Oxidizing materials, acids, alkali metals, metal hydrides and zirconium
Flammability:	Non-flammable, non-combustible
Stability:	Stable under normal handling conditions
Corrosive:	Non-corrosive



Speed, Performance, and Reliability

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