

ETR-1 Product Data Sheet



Description and Physical Properties

ETR-1 (Emulsified Texas Recycling Agent) is a cationic water-based emulsion designed to rejuvenate aged asphalt pavements. The emulsion contains special oils to soften oxidized asphalt surfaces.

Physical Properties:

- C.A.S. Number: 8052-42-4
- Boiling Point (F): 212°F
- Specific Gravity (H₂O=1): 1.01
- Percent Volatile: 0
- Solubility In Water: Soluble
- Appearance and Odor: Light Brown Liquid, Faint Petroleum Odor
- Flammability: Non-flammable in water-based state

Recommended Use

ETR-1 may be applied to the surface with well-calibrated distributors, or it can be used in hot in-place recycling. The distributor nozzles and spray bar should be sized and set to deliver the desired shot rate. The shot rate should be determined by the conditions of the existing pavement. The air and pavement temperatures should be sufficiently high to allow the emulsion to fully cure. ETR-1 should not be applied during rain or imminent threat of rain.

Typical Physical Properties

Property	Test Procedure	Min	Max
Viscosity, Saybolt Furol, 77°F, sec	T72	15	100
Sieve test, %	T59	-	0.1
Miscibility	T59	Pass	
Distillation test:	T59		
Residue by distillation, % by wt.		60	-
Tests on residue from distillation:			
Kinematic Viscosity @ 275 F, cSt	T201		10
Absolute Viscosity, 140 F, poise	T202	75	-

Storage and Handling

The water-based emulsion should not be exposed to overheating. The cationic emulsion is a chemically stabilized system, so care should be taken not to upset the chemical balance with contamination by chemicals, over-exposure to air, or adverse mechanical or thermal conditions. Before being filled, tanks and trucks should be examined for possible contaminants. Recommended use and storage temperatures are given in the table.

Recommended Temperatures	Min	Max
Storage	50°F	140°F
Application	50°F	130°F

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