

# CSS-1h Product Data Sheet

## Description and Physical Properties

CSS-1h is a cationic emulsion primarily used as a tack coat. The Emulsion can be used as a tack coat (either as is or diluted 50% with water) or fog seal (diluted 50% with water) and applied with a distributor.

## Physical Properties

- Boiling Point—Approximately 100°C (212°F)
- Percent Volatiles—None
- Appearance—Brown Liquid
- Flammability—Non-flammable (liquid)
- Weight Per Gallon—8.4 lbs
- Solubility in Water—Dispersible
- Odor—Mild Petroleum Odor

## Specifications for CSS-1h

The specification conforms to AASHTO M208, ASTM D2397, the Virginia Department of Transportation, North Carolina DOT, South Carolina DOT, Tennessee DOT, West Virginia DOT and Maryland State Highway Administration.

Property		Test Procedure (AASHTO)	Specification	
			Min	Max
Viscosity, Saybolt-Furol, 25°C (77°F), sec		T59, T72	20	100
Sieve Test, %		T59	—	0.1
Particle Charge		T59	Positive	
Distillation Test	Residue by distillation, % by weight	T59	57	—
	Oil Distillate, % by volume		—	3
Tests on Residue from Distillation	Penetration, 25°C (77°F), 100 g, 5 sec	T49, T59	40	90
	Ductility, 25°C (77°F), 5 cm/min, cm	T51, T49	40	—

## Handling

Protect the emulsion from freezing.  
 Avoid overheating the emulsion.  
 Avoid excessive pumping with high shear pumps, especially if the emulsion is cool.

## Storage and Application

Grade	Recommended Maximum Storage Temperature, °F	Application Temperatures (°F)	
		Recommended Range	Maximum Allowable
CSS-1h	140	50-130	175

## Transport

Regulatory Information	UN Number	Proper Shipping Name	Class	PG	Label
USDOT					Not Regulated



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