



AES-300 Product Data Sheet

Description and Physical Properties

AES-300 is a high float, medium setting anionic water-based asphalt emulsion for use in cold and warm asphalt and aggregate mixtures, base stabilization, and full depth reclamation. The high float gives the emulsion residue a gel structure which resists flow and drain-down.

Physical Properties:

- Boiling Point (F): 212°F
- Specific Gravity (H2O=1): 1.01
- Percent Volatile: 0
- Solubility In Water: Soluble
- Appearance And Odor: Brown Liquid, Faint Petroleum Odor

Recommended Use

AES-300 can be mixed cold or warm (less than 160°F) at a central plant, with a portable pugmill at the job site or in-place on the roadway. The mixed material may be used immediately, or stockpiled for later use. It may be placed with a paver or worked onto the pavement with a blade or reclaimer.

Specifications

Conforms to Texas Department of Transportation Specifications-Item 300.2.4 Table 7

Property	Test Procedure	Min	Max
Viscosity, Saybolt Furol, 77°F, sec	T72	75	400
Sieve test, %	T59	–	0.1
Coating ability and water resistance:	T59		
dry aggregate/after spray			Good/Fair
wet aggregate/after spray			Fair/Fair
Storage stability, 1 day, %	T59	–	1
Distillation test:	T59		
Residue by distillation, % by wt.		65	–
Oil distillate, % by volume of emulsion		–	5
Tests on residue from distillation:			
Penetration, 77°F, 100 g, 5 sec.	T49	300	–
Solubility in trichloroethylene, %	T44	97.5	–
Float test, 140°F, sec.	T50	1,200	–

Storage and Handling

The water-based emulsion should not be exposed to freezing temperatures or overheating. The 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	120°F	180°F
Application	120°F	160°F

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