

## Product Information

# ASFIER S-106LN

## Emulsifier for cationic asphalt emulsion

### *: Description and Typical Application*

ASFIER S-106LN is a liquid type cationic emulsifier for slow-set (CSS) based on modified tallow polyamine developed by Kao Corporation, Japan and Kao Industrial (Thailand) Co., Ltd.

## ***Characteristics***

Emulsions made with ASFIER S-106LN provide:

### 1. High mixing ability of asphalt emulsion with aggregate.

1-1. Can be compatible for variety of aggregate.

1-2. Can be mixed with aggregates even without adding filler (cement).

In case of the mixing time is relatively short, addition of cement would extend the mixing time.

1-3. Can be used at wide range of temperature.

### 2. Passing the cement mix test.

## ***Applications***

ASFIER S-106LN is a cationic emulsifier for slow setting emulsions used in plant mix and mixed in suite with dense graded aggregate and slurry seals.

## ***Typical Properties***

Appearance	:	Dark Brownish Liquid
pH	:	10 ~ 13 (5% sol.)
Specific Gravity	:	1.055 ~ 1.095 (25°C)
Solubility in Water	:	Soluble
Pour Point	:	> 7°C
Flash point	:	None

## ***Standard Dosage***

The dosage of ASFIER S-106LN is as follows :-

16 - 17 kgs per ton of emulsion for CSS-1h.

14 - 17 kgs per ton of emulsion for CSS-1.

## ***The attention in case of use***

pH of soap water must be adjusted to 2.0 by HCl and it is able to add salts to soap solution. The typical temperature of soap solution and asphalt are each Ambient 45°C and around 135 -145°C.

## ***Instance of emulsion test by ASTM***

ASFIER S-106LN in the case of CSS-1h.

Viscosity, Saybolt Furol at 25°C	21sec
Storage Stability, 24hr	0.5%
Particle Charge	positive
Sieve Test	0.01%
Cement Mixing Test	0.0%
Residue from Distillation	63.0%
Test on Residue	
Penetration, 25°C, 100g 5s	76 x 0.1 mm
Ductility, 25°C, 5cm/min	>100
Solubility in Trichloroethylene	98.5%

## ***Safety Precaution***

ASFIER S-106LN is an organic base, for this reason it has irritative actions for skin and eyes. Any contact with the skin, eyes and clothes should be avoided.

### FIRST AIDS

Exposure Media	Procedures
Inhalation	Remove victim to fresh air and keep warm. Give oxygen or artificial respiration as needed. Obtain medical attention promptly.
Skin Contact	Remove all contaminated clothes. Wash affected body areas with large amounts of water for at least 15 minutes. Get medical attention promptly.
Eye Contact	Flush eyes immediately with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Obtain medical attention promptly.
Swallowing	If victim is conscious, give at least two glasses of water to dilute. Do not induce vomiting, this is an acid and corrosive compound. Obtain medical attention promptly.