

EGMS / EGDS

Glycol stearate emulsifiers for cosmetics

Product Description

Ethylene Glycol Monostearate (EGMS) and Ethylene Glycol Distearate (EGDS) are cosmetic emulsifiers and opacifiers used in shampoos, conditioners and body wash products.

Certificate of Analysis

HSN Code: 3402.90

CAS Number: EGMS: 111-60-4 / EGDS: 627-18-6

Classification: Cosmetic Excipient – Emulsifier

Parameter	Specification	Test Method
Appearance	White waxy solid flakes	Visual
Identification	IR spectrum conforms	IR Spectroscopy
Melting Point (EGMS)	56–60°C	Capillary tube
Melting Point (EGDS)	60–63°C	Capillary tube
Acid Value	"d 5 m g K O H / g	Titration
Iodine Value	"d 3	Wijs method
Saponification Value (EGMS)	175–195 mg KOH/g	Titration
Saponification Value (EGDS)	185–200 mg KOH/g	Titration
Moisture	"d 0 . 5 %	Karl Fischer
Heavy Metals	"d 2 0 p p m	ICP-MS

Physical Properties

Appearance: White to off-white waxy solid flakes or pellets

Odor: Faint fatty odor

Solubility: Insoluble in cold water; dispersible in hot water; soluble in hot ethanol

Melting Point: EGMS: 56–60°C / EGDS: 60–63°C

Packing: 25 kg HDPE bags or carton boxes with PE liner; 50 kg woven bags

Storage: Store in cool, dry, well-ventilated area below 30°C. Keep away from moisture and strong oxidizers.

Safety & Handling

PPE: Gloves and goggles for handling hot molten material

Hazards:

- Low toxicity
- Combustible if heated above flash point