

GLYCEROL MONOSTEARATE 90 IN COSMETICS



Introduction

Glycerol monostearate commonly known as GMS . Glycerol monostearate 90 is a white Fine powder .It is also a consistency agent in cosmetic emulsions and it is stable in the acidic environment of the particular cosmetic.

Applications

- 1 GMS 90 is a glycerol ester commonly used in a wide variety of different cosmetic formulations.
- 2 GMS 90 include creams, lotions, antiperspirants, hair care products and sunscreens.
- 3 It is used as a co-emulsifier in oil-in-water (O/W) and water-in-oil (W/O)
- 4 It is also used in topical pharmaceutical creams, ointments etc.

Benefits

- 1 Safe (Approved for food contact application)
- 2 Antifoaming agents in lotion and cream.
- 3 Thickening agent .



Specifications

Test	Specification	Test Method
Assay	95% min	By Titration

Color of solution (at 90 Degrees C)	200 Apha max	APHA standards for liquids
Moisture	0.3% max	By Karl Fisher
Iodine Value (mgKOH/g)	3.0 max	By Titration
Free acid (as stearic acid)	2.5% max	By Titration
Free glycerol	1.2% max	By Titration
Melting Range	60.0-70.0 Deg C	Melting point apparatus (open capillary tube)
Heavy metal (as Pb)	5 ppm max	By AAS
As	1 ppm max	By AAS

Product FDA Status

GMS 90 is approved for use in food contact polymer as per the following chapter headings.

Title		21 - Food And Drugs
Chapter		I - Food And Drug Administration, Department Of Health And Human Services (Continued)
Sub Chapter		B - Food For Human Consumption (Continued)
Part		184 -Direct Food Substances Affirmed As Generally Recognized As Safe
Sub Part		B - Listing Of Specific Substances Affirmed As Gras
Section		184.1324 - Glycerol Monostearate.

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