

KOSTOL STMS[®] IN HAIR CARE

INCI: Cetearyl Alcohol, Behentrimonium Methosulfate, Bis-PEG-18 Methyl Ether Dimethyl Silane



INTRODUCTION

Kostol STMS is a high performing cationic oil-in-water emulsifier designed for both hair and skin care formulation. Emulsion development using Kostol STMS provides better adhesion to hair and skin than standard emulsions. In hair care, STMS provides moisturization, conditioning, smoothing and anti-frizz, that will enhance a product's efficacy on many levels. It creates radiant white emulsions, luxurious feel and texture, and improved spreading, as compared to traditional blends of cationic emulsifiers.

APPLICATIONS in Hair Care*

Kostol STMS is a versatile emulsifier that can be used in both hair and skin care for leave-on and wash-off applications.

HAIR CARE

- Shampoo
- Conditioner
- Detanglers
- Sprays
- Serums
- Hair Colorants
- Styling
- Masks
- Treatments

KEY FEATURES & BENEFITS

- Emulsification
- Conditioning
- Rich Looking Emulsions
- Anti-Static
- Smoothing & Detangling
- Frizz Control
- Foam Boosting
- Improved Wet & Dry Combing
- Superior Deposition
- Highly Compatible
- Silicone Compatible

PRODUCT CHARACTERISTICS

- **INCI:** Cetearyl Alcohol, Behentrimonium Methosulfate, Bis-PEG-18 Methyl Ether Dimethyl Silane
- **Typical Use Level:** 1-10%
- **pH Range:** 3-11
- **Form:** White Pastille
- **Active Level:** 25%
- **Package:** 25KG Box



FORMULATION GUIDELINES

This is an oil-in-water emulsifier that needs to be heated and emulsified at a minimum of 60-65°C or 5-10° degrees higher than the highest melting item in the formula. A conventional propeller mixer with medium or greater speed is all that is needed. Formulators can use a homogenizer; however, it is not necessary. There are some key points to remember when formulating with cationic emulsifiers. Cationic chemistry is typically incompatible with anionic products. They are characteristically not compatible with certain acrylate copolymers, xanthan gums and CMC thickeners as well as other anionic products.

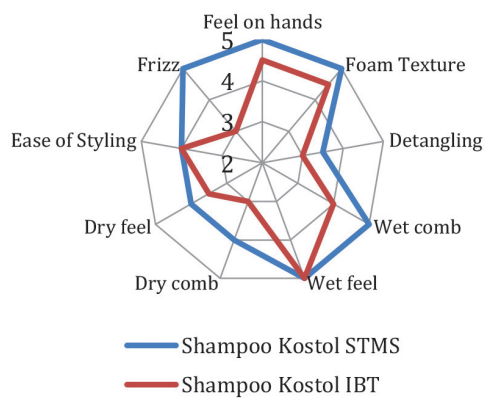
*This document focuses on Kostol STMS in hair care systems, for skin care, please see Kostol STMS in Skin Care brochure.

HIGH PERFORMANCE HAIR CARE

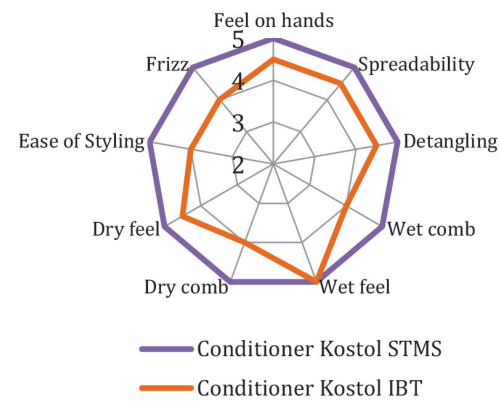
Create specialized hair care with this high-performance emulsifier. Easily pivot an existing formula by exchanging a standard cationic emulsifier for Kostol STMS for immediate results. Whether starting from concept or upgrading a current formula, consider Kostol STMS for smooth, hydrated hair, better foam appearance, deeper conditioning, and improved combing in both wet and dry hair.

LEVEL-UP CONDITIONING PERFORMANCE

Everyone wants hydrated, smooth and healthy-looking hair, and it is achievable with Kostol STMS as the primary emulsifier in conditioning formulation. See our results below.



Panel testing shows all around improvements with formulas using Kostol STMS. Kostol STMS Significantly outperformed on spreadability, slip, detangling, dry combing, ease of style and frizz control.



Performance formulas were made using Kostol STMS and evaluated next to the standard cationic emulsifier (Kostol IBT) resulting in improved product esthetics and performance.

Surfactant formulas with Kostol STMS provide a thicker, richer foam providing a more luxurious product experience



Ultra Violet Conditioner with Color Deposition

- Deep Conditioning to repair and revitalize hair
- Color deposition into hair
- Leaves hair soft, supple and shiny

Function	INCI Name	%
Phase A		
Deionized Water	Aqua	73.5
Celquat SC-230 M	Polyquaternium-10	0.2
Glycerin	Glycerin	3.0
Optiphen	Phenoxyethanol, Caprylyl Glycol	1.0
Arianor Jade Blue	HC Blue 15	0.1
Arianor Magenta	Basic Violet 2	0.1
Phase B		
Kostol STMS	Cetearyl Alcohol, Behentrimonium Methosulfate, Bis-PEG-18 Methyl Ether Dimethyl Silane	4.0
Kostol PGP	Polyglyceryl-3 Stearate, Beheneth-5	1.5
Cocoa Butter	Theobroma Cacao (Cocoa) Seed Butter	3.0
Kester wax K-24	Lauryl Laurate	3.0
Dermol IPP	Isopropyl Palmitate	3.0
Dermol OP	Ethylhexyl Palmitate	3.0
Phase C		
Belsil PDM20	Trimethylsiloxylphenyl Dimethicone	3.5
"Breeze Fresh"	Parfum	1.0

