

Polytrap 6500 Dimethicone/Petrolatum Delivery System

Description: A free-flowing white amorphous polymeric powder highly loaded with a mixture of silicone.

Provides excellent skin feel on application while extending the moisturization and skin protectant qualities on the skin after application. The ease of incorporation into a wide range of personal care and cosmetics products helps provide extend skin protectant qualities to these formulas. After application, the remaining polymer particles have the ability to adsorb excess skin oils, thus providing extended use benefits such as extended color in lipsticks and facial make-ups and mattefying and shine reduction in facial cleansers, moisturizers, and treatment products.

Typical Properties	
Composition (INCI Name):	Dimethicone (AND) Petrolatum (AND) Lauryl Methacrylate/Glycol Dimethacrylate Crosspolymer
Particle Size (base polymer):	100% passes thru 325 mesh
Ingredient level:	70% w/w
Appearance:	Moist, amorphous white powder
Solubility of polymer:	Insoluble

Benefits

- Aids incorporation of dimethicone and petrolatum into a broad range of products including gels and powders
- Extends the skin protectant capabilities of dimethicone and petrolatum providing long lasting performance not possible with the ingredients alone.
- Provides sebum control in all types of formulations including lotions, gels, o/w and w/o emulsions, and both loose and pressed powders

Typical Applications

- ❖ Facial Cleansers requiring improved elegance and luxurious after feel
- ❖ Skin Care including anti-aging products, acne care, moisturizers, and oil control treatments
- ❖ Color Cosmetics including loose and pressed powders, body powders, and liquid make-ups
- ❖ Sun protection and after sun products
- ❖ Toiletries, including deodorants, body lotions, sunscreens, baby care products
- ❖ Other personal care sticks and gels

Product Performance: Polytrap 6500 was evaluated for skin protectant qualities. Skin protectant composition based on Polytrap 6500 was applied to skin test sites. The sites were then challenged by placing dye stained saturated fiber discs on them. Sites were then cleaned and dried. Chromameter measurements of the sites were compared to baseline readings to quantify the degree of staining. Comparisons to untrapped dimethicone, a monograph skin protectant, showed significant improvements under fiber contact conditions.

Formulation Tip:

Polytrap 6500 can be easily formulated into an O/W lotion by simple powder dispersion techniques into oil phase or, preferably, after an emulsion is formed.

Recommended use levels: 1 - 5 %

Packaging: Polytrap 6500 is supplied in 68.2 kg (150 lb.) and 13.6 kg (30 lb) containers.

Patent Information: The use of Polytrap 6500 is covered by AMCOL patents. Use in antimicrobial cleansing applications is restricted.