



Phosphomer® ST610KC

Skin Barrier Function Enhancer and Moisturizer and thickener

Phosphomer® is a registered trade name of KCI's brand new cosmetic raw materials based on biomimetic technology. Phosphomer® ST610KC is an effective suspending and stabilizing agent for use in specialty shampoos includes antidandruff shampoo, conditioning shampoo. It is also an excellent thickener and light gellant for systems containing electrolytes. It has lots of unique characteristics due to their molecular net structure and biomimetic nature. It is an excellent rheology modifier and effective skin barrier function enhancer.

Description / General Characteristics

- Classification: Thickener, Rheology modifier
- INCI Name: Polyacrylate crosspolymer-14
- Baby care spot gel

Features / Benefits

- Sensory Features
 - High Spreadability
 - Low Stickiness
 - High Film Forming Ability
- Rheological & Physical Features
 - High Uniformity of Aqueous Dispersion
 - Improved Elasticity
 - High Viscosity
 - High Suspending Ability
 - High Clarity
- Skin Barrier Functional Features
 - Moisturizing Skin
 - Reducing Irritation from external Irritants
 - Reducing Trans Epidermal Water Loss
 - Preventing Skin from being damaged

Typical properties

Subject	Specification
Appearance	White, fluffy powder
Identification	IR Spectrum
Residual Solvent(%) (Cyclohexane+Ethyl acetate)	0.45 Max.
Viscosity(cPs) ¹⁾	25,000-45,000
Viscosity(cPs) ²⁾	7,000-14,000
Loss on drying (%)	3.0 Max.

¹⁾ 1.0% in neutralized aqueous solution, 25°C

²⁾ 1.0% in neutralized aqueous solution + 1.0% NaCl, 25°C

Applications / Uses

- Cream
- Lotion
- Hair and skin gel
- Bath gel
- Essence
- Shampoo
- Body wash

Storage and Handling

- Packaging: 10kg carton box (net weight basis)
- Shelf-Life: 24 months from manufacture date
- Storage conditions: Keep containers tightly closed and stored out of contact with water. Protect from moisture.
- Do not breathe dust and avoid contact with skin, eyes and mucous membranes. In case of contact, wash immediately with plenty of water.

Guide formulations

- Baby lotion