

Poly quarter 600

INCI Name

POLYQUATERNIUM-10

Description

Poly quarter 600 is a water-soluble cationic polymer compatible with all kinds of surfactant. With good performances of thickening, colloid stability, antistatic, moisturization, lubrication, it can repair damaged hair, and impart good moisturization and manageability to hair, as well as reduce irritation caused by surfactants, recover skin's self-protection, impart skin moisture, lubricity and a elegant after feel.

Specification

Parameter	Value
Appearance	Yellowish powder
pH value (25 °C, 2%soln)	5.0-7.0
Loss on drying (%)	≤6.0
Viscosity (25°C, 2%soln, mPa·s)	300-500
Nitrogen content (%)	1.5-2.2
Ash content(105 °C, 2h, %)	≤3.0

These values indicate typical specification, they are not intended to be used as product specifications.

Properties

When used in hair care products,

- Affinitive to hair, repair split-end and tangle of hair.
- Form a transparent, continuous and non-tacky film.
- Improve dry and wet combability of hair and soft feeling and manageability.
- Reduce irritation to eye caused by surfactants.
- Compatibility with all kinds of surfactant, widely used.

When used in cleanser and skin care products,

- With favorable adhesion and moisturization.
- Impart skin a lubricous, moist and gracious feeling.
- Reduce irritation to skin caused by surfactants and other ingredients, recover skin's self-protection.

Applications

2 in 1 shampoo

Conditioner and hairdressing gel

Leave-in conditioner.

Gel spray, hair tonic.

Body wash, face cleanser.

Skin lotion and cream.

Formula Guidelines

Typically used at a level of 0.1~0.8%.

Pre-prepare aqueous solution of 2% POLYQUTA 400, then mix with surfactant solution at 70-75°C while stirring. A little NaOH can be added to accelerate swelling.

Storage & Handling

Standard Packing: 25kg/drum;

Storage: Keep in Cool, Dry, Ventilated and Lightless Place.

Shelf life: 24months