

### POLYQUTA 3000

#### INCI Name

POLYQUATERNIUM-10

#### Description

POLYQUTA 3000 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 afterfeel.

#### Specification

Parameter	Value
Appearance	Yellowish powder
pH value (25 °C, 1%soln)	5.0-7.0
Loss on drying(%)	≤6.0
Viscosity (25°C, 1%soln, mPa·s)	1000-2500
Nitrogen content (%)	1.6-2.1
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, recovers 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 3000, 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.

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