

### POLYQUTA 400

#### INCI Name

POLYQUATERNIUM-10

#### Description

POLYQUTA 400 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, 2%soln)	5.0-7.0
Loss on drying (%)	≤6.0
Viscosity (25°C, 2%soln, mPa·s)	300-500
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, 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.

**GUANGZHOU TINCIMATERIALS TECHNOLOGY CO., LTD.**

Kangda Road No.8, Yunpu Industrial Zone,  
Huangpu Region, Guangzhou  
TEL: 86-20-82251159 FAX: 86-20-82250169  
WEBSITE: www.tinci.com

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