

Polyquaternium 10 (PQ-10)

Cationic cellulosic conditioner

Product Description

Polyquaternium-10 (PQ-10) is a cationic hydroxyethylcellulose polymer used as a conditioner and film former in hair care and skin care products.

Certificate of Analysis

HSN Code: 3912.39

CAS Number: 68610-92-4

Classification: Cosmetic Ingredient – Cationic

Parameter	Specification	Test Method
Appearance (Powder)	White to off-white free-flowing powder	Visual
Appearance (Solution)	Clear to slightly hazy liquid	Visual
Active Content (Powder)	"e 9 5 %	Gravimetric
Viscosity (1% aq.)	200–800 mPas	Brookfield LVT at 25°C
pH (1% aq. solution)	5.0–8.0	Potentiometry
Degree of Substitution (DS)	0.25–0.35	Chemical analysis
Loss on Drying (Powder)	"d 8 . 0 %	Gravimetric at 105°C
Nitrogen Content	1.5–2.2%	Kjeldahl
Heavy Metals	"d 2 0 p p m	ICP-MS

Physical Properties

Appearance: White to off-white free-flowing powder (powder grade)

Odor: Odorless to mild characteristic odor

Solubility: Soluble in cold water to form viscous solution

Packing: 20 kg / 25 kg multi-layer bags with PE inner liner; fibre drums

Storage: Store in cool, dry, well-ventilated area below 25°C. Protect from moisture. Keep containers tightly sealed.

Safety & Handling

PPE: Dust mask, safety goggles for powder handling

Hazards:

- Dust may cause mild respiratory irritation
- Low toxicity