



One network. A world of solutions.

UCARE™ polymers from Univar

Manageability, feel softness, and smoothness, whether wet or dry.

UCARE™ polymers

INCI: Polyquaternium-10



Functions and benefits

- > Wet / dry comb
- > Wet / dry feel, softness / smoothness
- > Manageability
- > Shine and overall look
- > Silicone deposition aid
- > No build-up, volume friendly
- > Good film former = shine
- > Excellent shampoo clarity and broad surfactant compatibility
- > Actives solubility enhancer (Vitamins B and H)

Applications

- > Clear and pearlized shampoos
- > 2-in-1 shampoos with silicones
- > Conditioners
- > Colorants and color-save products
- > Waterproofing for daily wear lotion (UCARE JR-400)

Selection guide	Based on cationic charge (CS)	Based on molecular weight (MW)
Detangling		
Wet comb	High CS (JR)	High MW (30M)
Dry comb	High CS (JR)	High MW (30M)
Softness / smoothness		
Wet feel	High CS (JR)	High MW (30M)
Dry feel	High CS (JR)	High MW (30M)
Ease of removability	Low CS (LK)	

Shampoo use

- > Controlled / light conditioning on normal hair: low CS (LK)
- > Repair / moderate to strong conditioning: high CS (JR) and medium CS (LR)

Shampoo use with silicones

- > Medium MW (400) allows deposition of large particle size silicone (preferred: LR:400)
- > High MW (30,000) allows deposition of small particle size silicone (preferred: JR-30M)

UCARE grades		
Product	Viscosity, cPs (2% aqueous solution)	Nitrogen (%) cationic substitution
Polymer JR 125	75 – 125	1.5 – 2.2
Polymer LK	300 – 500	0.4 – 0.6
Polymer LR 400	300 – 500	0.8 – 1.1
Polymer JR 400	300 – 500	1.5 – 2.2
Polymer KF	500 – 1500	1.5 – 2.2
Polymer LR 30M	30,000	0.8 – 1.1
Polymer JR 30M	30,000	1.5 – 2.2



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