



Hair Conditioning Cream with Intelimer® 8600 Polymer Formulating Guide No. H001

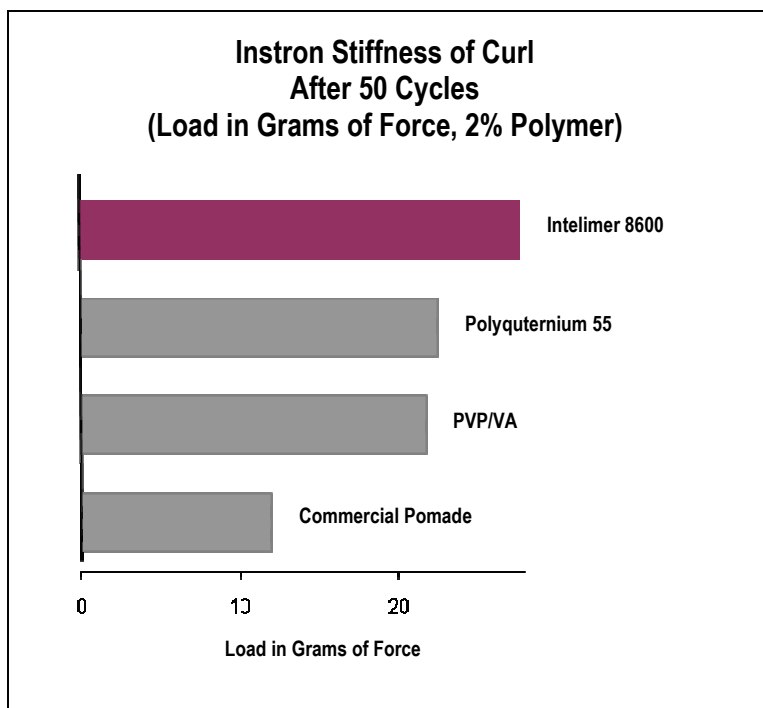
Description

Hair Conditioning Cream with Intelimer 8600 polymer has the dual function of conditioning and styling with easy to comb properties. The unique benefit of Intelimer 8600 polymer is superior hold while enabling style-restyle without the need for reapplication. This formulation can be used effectively with a curling iron or flat iron.

Typical Properties

(not to be used as specifications)

Appearance	White emulsion
pH	6.84
Stability	Passed 4 month 50 °C
Viscosity (cPs) Brookfield RVT, 10 RPM, 25 °C, Spindle D)	32,000-42,000



Curled hair tresses coated with different styling agents were subject to a series of controlled extensions in a controlled environment using Instron. Each hair tress was extended to a straight conformation before release. This force required to uncurl the hair tresses is directly proportional to the polymer curl. As evident above, a styling cream based on Intelimer 8600 shows significantly higher stiffness than competing alternatives. This along with its style / restyle capability makes products with Intelimer 8600 ideal for hair care.

Ingredient / Trade Name	INCI Designation	%W/W	Function	Supplier
Deionized Water	Water (Aqua)	94.15	Diluent	
Carbopol® 980	Carbomer	0.5	Thickener	Noveon
Intelimer 8600	C8-22 Alkyl Acrylate/ Methacrylic Acid Cross Polymer	2.1	Fixative	Air Products
Triethanolamine	TEA (99%)	0.75	Neutralizer	Ashland
Dow Corning® 556	Phenyl Trimethicone	0.5	Conditioner	Dow Corning
DI Panthenol	Panthenol	0.5	Conditioner	BASF
Dow Corning® 1411	Cyclopentasiloxane(and) Dimethicone	1.0	Conditioner	Dow Corning
Glydant®	DMDM Hydantoin	0.5	Preservative	Lonza

Procedure

1. Disperse Carbomer into water while stirring and gently mix until it is fully dispersed.
2. Add all other ingredients including Intelimer 8600 polymer one-by-one while stirring and gently mix for fifteen to twenty minutes.
3. Fill into desired package.

For Samples or More Information

If you would like additional information or technical assistance in preparing specific formulations, write or call Air Products.

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