

Flexible-Hold Styling Gels

Strong or Natural With *Eastman AQ 55S* Polymer

Key Benefits

- Low Tack—Wet or Dry
- Fast Dry Time—Even in Alcohol-Free Formulas
- High Gloss
- Excellent Curl Retention at High Humidity
- Tunable Firmness for a Strong or a Natural Hold

Eastman AQ 55S is a water-dispersible, film-forming polyester ideally suited for use in hair styling products. *Eastman AQ* polymers simultaneously deliver multiple benefits.

The **Strong, Flexible-Hold Styling Gel** containing *Eastman AQ 55S* is an alcohol-free formulation that dries quickly with low tack.

When dry, it provides a flexible hold and excellent high-humidity resistance.

In addition, it combs out easily for restyling.

The dried film is clear and glossy.

The **Natural, Flexible-Hold Styling Gel** containing *Eastman AQ 55S* is a low-tack, alcohol-free formulation.

It feels soft and smooth on the hair and combs out easily.

Additionally, it provides good hold under high-humidity conditions.

INCI Name: **Polyester-5**

For more information, visit www.EastmanPersonalCare.com

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Strong or Natural Flexible-Hold Styling Gels

Strong, Flexible-Hold Styling Gel

Part A	wt %
Deionized Water	6.9
Eastman AQ 55S Polyester-5	2.3
Part B	
Deionized Water	86.9
Glycerin	1.7
N-Hance HP-40S Hydroxypropyl Guar ¹	1.7
Preservative	q.s. ²

¹Aqualon ²Quantity sufficient

Natural, Flexible-Hold Styling Gel

Part A	wt %
Deionized Water	46.0
Disodium EDTA	0.1
Eastman AQ 55S Polyester-5	3.0
Glycerin	3.0
Dow Corning 190 PEG/PPG-18/18 Dimethicone	0.5
Part B	
Deionized Water	46.0
Ultrez 20 Acrylates/C10-30 Alkyl Acrylate Crosspolymer ¹	1.0
Fragrance	q.s. ²
Part C	
Sodium Hydroxide	q.s.
Preservative	q.s.

¹Noveon, Inc. ²Quantity sufficient

The viscosity is approximately 49,000 cP (Brookfield LV spindle #4, 6 rpm).

Part A

- Heat water to about 70°C. With rapid stirring, add AQ 55S pellets and stir until pellets are completely dispersed.
- Allow mixture to cool.

Part B

- Add glycerin to water.
- Stir rapidly at room temperature while slowly sifting in hydroxypropyl guar.
- Continue stirring until all hydroxypropyl guar has dissolved and mixture has thickened.

Add Part A to Part B. Stir slowly until homogeneous.

The viscosity is approximately 52,000 cP (Brookfield LV spindle #4, 6 rpm); pH is about 6.5–7.5. The concentration of hydroxypropyl guar can be increased if a higher viscosity is desired.

Part A

- Add EDTA to the water of Part A.
- Heat while stirring until temperature reaches 70° to 75°C.
- Add the AQ 55S and stir without further heating until dispersed.
- Cool to at least 40°C.
- Add the remaining Part A ingredients with continuous stirring.

Part B

- Sift the Ultrez 20 polymer onto the surface of the water of Part B and allow time to wet.
- Add fragrance, if desired, and mix.

Carefully pour the cooling Part A into Part B while mixing with an overhead stirrer.

Part C

- While stirring, slowly add sodium hydroxide to the mixture of Parts A and B until the pH reaches 7.5.

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