

Sparkling Gold Hair Styling Gel

S-G0029

This gel formula is used to add temporary highlights while styling, and provides easy application through its gel form. **Carbopol®* Ultrez 21 Polymer** thickens and suspends mica in this gel. **Fixate®* G-100 Polymer** contributes superior performance properties such as high humidity resistance and reduced flaking, and **SilSense™* SA-1 Silicone** provides conditioning.

| | INCI Name, Trade Name | Weight % | Function |
|-----|--|----------|-------------------|
| 1. | Deionized Water | 30.00 | Diluent |
| 2. | Acrylates/C10-30 Alkyl Acrylate Crosspolymer, Carbopol®* Ultrez 21 Polymer | 1.00 | Rheology Modifier |
| 3. | Propylene Glycol | 5.00 | Humectant |
| 4. | FD&C Yellow No. 5 (0.1%) | 5.00 | Dye |
| 5. | Mica (and) Titanium Dioxide (and) Iron Oxides, <i>Corona® Red Gold</i> | 3.00 | Pearlizing Agent |
| 6. | Mica (and) Titanium Dioxide (and) Iron Oxides, <i>Cloissone Sparkle Gold</i> | 2.00 | Pearlizing Agent |
| 7. | Deionized Water | 44.65 | Diluent |
| 8. | dl-Panthenol | 0.25 | Conditioner |
| 9. | Ammonium Dimethicone PEG-7 Sulfate, SilSense™* SA-1 Silicone (35%) | 0.50 | Conditioner |
| 10. | Aminomethyl Propanol, <i>AMP-95®</i> | 0.50 | Neutralizer |
| 11. | AMP-Acrylates/Allyl Methacrylate Copolymer (26%), Fixate®* G-100 Polymer | 7.60 | Fixative |
| 12. | DMDM Hydantoin (and) Iodopropynyl Butylcarbamate, <i>Glydant® Plus Liquid</i> | 0.30 | Preservative |
| 13. | Fragrance, <i>Peach Nectar Fragrance (J-9388)</i> | 0.20 | Fragrance |

Procedure:

1. Sprinkle **Carbopol®* Ultrez 21 Polymer** on the surface of deionized water and allow to self wet. Begin mixing when polymer is fully wet.
2. Add propylene glycol and continue mixing.
3. Add FD&C dye and mix until homogenous.
4. Combine ingredients #5-7 in separate vessel with good mixing. Add to main vessel. Increase agitation. *Note: This mixture will have a lumpy, non-uniform appearance.*
5. Add dl-Panthenol and mix until uniform.
6. Add **SilSense™* SA-1 Silicone** to batch and mix until homogenous.
7. Neutralize with AMP-95® and mix until uniform.
8. Add **Fixate®* G-100 Polymer** to batch and mix until homogenous.
9. Add Glydant® Plus and fragrance and mix until homogenous.
10. Adjust pH to 6.0 with AMP-95® (if necessary).

Product Properties:

| | |
|------------------------------------|--|
| Appearance | Smooth, gold iridescent viscous gel |
| pH | 5.8 – 6.4 |
| Viscosity (mPa s)** | 18,000 – 28,000 |
| Yield Value (dyn/cm ²) | 1,100 – 1,600 |
| Stability: | Passed 3 months @ 45°C, 5 cycles freeze/thaw |

Fixate®* G-100 Polymer (% TS) 2.0

** Brookfield RVT @ 20 rpm, 25 °C, #6 spindle

Supplier References:**Noveon, Inc. (2, 9, 11)**

Dow / VWR (3)

Quantum Colours (4)

Rona (5)

Engelhard (6)

Protameen (8)

Dow (10)

Lonza (12)

Bell Flavors and Fragrances (13)

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