



## Hair Care Formulations

Ashland Specialty Ingredients  
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# Intensity Nourishing Hair Mask

Formula #. Z309-86D

Ingredients (Trade name/INCI/)		% w/w	Supplier
<b>Phase A</b>			
Deionized water	Aqua	ad 100%	Local
Dissolvine® Na	Disodium EDTA	0.10	AkzoNobel
<b>Natrosol™ Plus 330 CS HMHEC</b>	Cetyl Hydroxyethylcellulose	0.15	<b>Ashland</b>
Glycerin	Glycerin	2.00	Local
<b>Phase B</b>			
Varisoft® 300 (30%)	Cetrimonium Chloride	5.00	Evonik
<b>Prolipid™ 161 lamellar gel</b>	Behenyl Alcohol (and) Cetearyl Alcohol (and) Hydroxyethyl Cetearylamidopropyltrimonium Chloride	2.50	<b>Ashland</b>
Kalcol® 6850	Cetearyl Alcohol	6.00	Kao
Glyceryl Stearate	Glyceryl Stearate	1.00	Local
<b>Phase C</b>			
<b>N-Durhance™ A1000 polymer</b>	Polyacrylamidopropyltrimonium Chloride	5.00	<b>Ashland</b>
Xiameter® MEM 1785	Dimethiconol (and) TEA- Dodecylbenzenesulfonate	2.50	Xiameter
Belsil® ADM 8301E	Amodimethicone/Morpholinomethyl Silsesquioxane Copolymer (and) Trideceth-5 (and) Glycerin	2.50	Wacker
Citrus Sparkle & Peach 221	Parfum	0.03	IFF
<b>Optiphen™ BSB-W preservative</b>	Benzyl Alcohol (and) Aqua (and) Sodium Benzoate (and) Potassium Sorbate	0.30	<b>Ashland</b>
<b>Phase D</b>			
Citric Acid	Citric Acid	To pH 4.0 – 4.5	Local



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# Intensity Nourishing Hair Mask

## Formula #. Z309-86D

### Procedure:

1. Phase A: Disperse Natrosol Plus 330 CS in cold water under agitation, add EDTA and Glycerin and heat up to 75°
2. Phase B: Add the ingredients in order to phase A, homogenize at 75° with rotor/stator mixer for 5 min or until a smooth surface and cool to 45°C
3. Phase C: Add in order under good agitation and cool further below 30°C
4. Phase D: Adjust pH to 4.0 – 4.5

### Typical Properties

**Appearance:** Viscous white shiny cream

**pH:** 4.00 – 4.50

**Viscosity** 50,000 – 90,000 mPas.s Brookfield LVT Spindle #4, 12 RPM, 1 min @ 25 °C

**This formula has passed 3 M stability test at 45°C and 28-day double challenge efficacy test. However, the preservative system has not been optimized to its lowest effective level.**