

Slimming Gel Using Carbopol® Ultrez 10 Polymer

This light, non-tacky skin gel features caffeine and natural actives.

Ingredient /INCI-CTFA Name	Weight, %	Function	Trade Name (Supplier)
PART A			
1. Deionized Water	43.00	Diluent	
2. Carbomer	1.00	Rheology Modifier	Carbopol[®] Ultrez 10 (Noveon, Inc.)
3. Propylene Glycol	7.00	Humectant	
4. Phenoxyethanol (and) Methylparaben (and) Ethylparaben (and) Propylparaben (and) Butylparaben	0.50	Preservative	Phenonip [®] (Nipa Laboratories)
PART B			
5. NaOH (18%)	2.00	Neutralizing Agent	
PART C			
6. Ethanol	10.00	Solvent	
7. Ethoxydiglycol	4.00	Solvent	Transcutol [®] (Gattefossé)
PART D			
8. Caffeine	2.00	Active	Coffeine [®] (Merck)
9. Deionized Water (warm)	15.00	Diluent	
PART E			
10. Propylene Glycol (and) Water (and) Ivy Extract	3.00	Active	Vegetol [®] Lierre MCF 775 Hydro (Gattefossé)
11. Propylene Glycol (and) Water (and) Bladderwrack Extract	2.00	Active	Vegetol [®] Algues CB 4136 Hydro (Gattefossé)
PART F			
12. Dimethicone Copolyol	2.00	Emollient/ Detackifier	Dow Corning [®] 193 (Dow Corning)
PART G			
13. Ethanol	5.00	Solvent	
14. Polysorbate 20	3.00	Solubilizing Agent	Tween [®] 20 (ICI Surfactants)
15. Fragrance	0.50	Fragrance	Fragrance "FBA 11838" (IFF)
		F981217.1	(OVER →)

PROPERTIES:

Appearance:	Light yellow, clear viscous gel
pH:	6.4 - 6.8
Viscosity* (cP) @ 25°C:	30,000 - 37,000
Stability Data:	Passed 3 months @ 45°C Freeze/Thaw - 5 cycles

*Brookfield DV - II+ (or RVT) @ 20 rpm, RV spindle # 6

PREPARATION PROCEDURE:

1. Prepare the **Carbopol[®] Ultrez 10** dispersion by sprinkling the powder on the surface of deionized water. The dispersion is ready when no white powder is visible anymore. Mix slowly.
2. Add the propylene glycol and Phenonip[®].
3. Neutralize with NaOH.
4. Mix the ingredients of PART C and add this mixture to the batch.
5. Solubilize Coffeine[®] in warm deionized water and add it to the batch.
6. Add the extracts of PART E, in order, and mix well until uniform.
7. Add the dimethicone copolyol.
8. Mix the ingredients of PART G and add to batch. Mix until uniform.

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Noveon, Inc. / 9911 Brecksville Road, Cleveland, Ohio 44141-3247 / TEL: 800-379-5389 or 216-447-5000