

Exfoliating Facial Cleanser with XFoliPEARL™ CC10

Formulation: KPC/ PD14002.06

Phases	Ingredients	% w/w
A1	Water	85.10
	Di EDTA	0.10
A2	Glycerin	3.00
	Xanthan Gum	0.70
B	Disodium Laureth Sulphosuccinate	3.00
C	PEG 120 Methyl Glucose Dioleate ¹	3.00
D	Methylchloroisothiazolinone (and) Methylisothiazolinone ²	0.10
E	XFoliPEARL™ CC10 - Hydrogenated Castor Oil (and) Euphorbia Cerifera (Candelilla) Wax	5.00
		Total: 100

Bold denotes products available from Kemin.

¹Glucamate (R) DOE-120/Lubrizonal ²Kathon CG/Dow

Manufacturing Process:

1. Weigh Phase A1 and adjust under overhead mixer
2. Pre-mix Phase A2 and add to main phase while continuously mixing
3. Heat main phase to 82°C
4. Add Phase B, adjust mixing speed to avoid excessive foaming
5. Add Phase C and allow to melt in main phase
6. Cool main phase to 45°C while mixing continuously
7. Add Phase D and allow to mix uniformly. Make up lost water if needed
8. Switch to sweep mixing and pour Phase E. Mix until uniformly suspended.

Characteristics:

- Appearance:** Clear gel with suspended beads
Color: Colorless to off-white
pH: Between 5 and 6
Viscosity: Between 2000 and 3000 cP, Brookfield Viscometer, RVT, T-A, 12 RPM
Kinetic Stability: No separation when centrifuged at 4000 RPM for 30 minutes

Emulsion Stability:

Results to date:

- Stable for 5 freeze-thaw cycles
- Beads remain solid, no change in shape for 3 months at 45°C.



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