



Sunscreen Body Milk
Formulation FS402

This product is characterized by an emollient, but non-oily, feel. It is suitable for all skin types. Formulated with mineral and organic based UVA and UVB sunscreens it provides an average SPF 20. The moisturizing complex of xylitol, inositol and maltitol provides osmo-protection, while the aloe vera extracts provides protection from chapping. In this formula the Silube J208-412 emulsifier helps to optimally disperse the micronized titanium dioxide.

<u>Phase</u>	<u>Ingredient</u>	<u>INCI Name</u>	<u>%w/w</u>
Part A	Deionized Water (+2% evaporation)	Aqua	57.05
	Glycerin	Glycerin	2.00
	Dissolve GL 38 (Akzo)	Tetrasodium Glutamate Diacetate	0.30
	Maltitol 70	Maltitol	0.25
	Xylisorb 300 (Roquette)	Xylitol	0.50
	Inositol (Danisco)	Inositol	0.50
Part A1	Comixan ST/HV (Comiel)	Xanthan Gum	0.80
Part B	Parsol MCX (Res Pharma/DSM)	Ethylhexyl Methoxycinnamate	4.00
	Parsol 1789 (Res Pharma/DSM)	Butyl Methoxydibenzoylmethane	1.00
	Nexbase 2006 (Fortum)	Hydrogenated Polydecane	2.00
	Dermofeel BGC (Dr. Staetmans)	Butylene Glycol Dicaprylated/Dicaprate	4.00
	Nomcort T.I.O. (Ikeda)	Triethylhexanoin	5.00
	Silube J208-412 (Siltech)	Lauryl PEG-8 Dimethicone	5.00
	Tocopheryl Acetate	Tocopheryl Acetate	0.10
	Nipagin M (Clariant)	Methylparaben	0.25
	Nipagin A (Clariant)	Ethylparaben	0.20
	Phenoxyethanol	Phenoxyethanol	0.80
Part C	Cyclopentasiloxane	Titanium Dioxide Aluminium Hydroxide Stearic Acid	10.00
		Cyclopentasiloxane	3.00
Part D	Deionized Water	Aqua	2.00
	Lactic Acid (sol. 80%)	Lactic Acid Aqua	0.35
	NaOH (sol. 10%)	Sodium Hydroxide Aqua	0.60
Part E	Aloe Vera Gel	Aloe Barbadensis Gel	1.00
Part F	Drago Beta Glucan (Symrise)	Aqua Butylene Glycol Glycerin	1.00
		Avena Sativa Kernel Extract	
Part G	Maddalena 781 0601781 (M&M)	Parfum	<u>0.30</u>
			<u>102.00</u>

Appearance: Fluid, white emulsion
Viscosity: pH 5.1 – 5.5

25°C – Brookfield RVT- 24,000 2.5rpm
Helipath C 14,000 5.0rpm

Procedure:

1. Prepare Part A in a side mixer under vacuum. Then add A1 and heat to 80-85°C while mixing and homogenizing until complete swelling.
2. In the main mixer, melt Part B at 80-85°C. Then add Part A+A1 to Part B.
3. Homogenize.
4. Cool to 40°C. While mixing add Parts C, D, E, F and G.
5. Cool to room temperature under vacuum.

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