

SPF Cream with OAT COM USP

This formulation was produced to demonstrate how 2% **OAT COM USP** greatly improves the sensory attributes of an emulsion containing sunscreens. Feel the lubricious rub in and non-greasy, light after feel for yourself. Compare it against the control formulation with no Colloidal Oatmeal.

	Trade Name	INCI Name	Function	%W/W	Supplier
1	Purified Water	Aqua	Solvent	71	
2	Versene Na2	Disodium EDTA	Chelating Agent	0.05	Dow Chemical
3	OAT COM USP	Avena sativa (oat) Kernel Flour	Emulsion stabiliser, Texture enhancer	2	Oat Cosmetics via ProTec Ingredia
4	Aristoflex® AVC	Ammonium Acryloyldimethyltaurate/VP	Thickener	0.25	Clariant
5	Crodamol AB	C12-15 Alkyl Benzoate	Emollient	6	Croda
6	Parsol MCX	Ethylhexyl Methoxycinnamate	Sunscreen	7	Adina
7	Parsol 1789	Butyl Methoxydibenzoylmethane	Sunscreen	3	Adina
8	Parsol 340	Octocrylene	Sunscreen	4	Adina
9	Cetyl Alcohol	Cetyl Alcohol	Co-Emulsifier	2	Kemcare
10	TEGO® Care 450	Polyglyceryl-3 Methylglucose Distearate	Emulsifier	3	Surfachem
11	BC Dimethicone 350cs	Dimethicone	Skin Conditioning	1	Basildon KCC
12	UNIPHEN P-23 NIB	Phenoxyethanol, Methylparaben, Ethylparaben, Butylparaben, Propylparaben	Preservative	0.7	Induchem via ProTec Ingredia

ProTec Ingredia Ltd

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Registered in London No. 07517784 VAT No. GB 100 2120 14

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Method of Manufacture

Into the main vessel add:

Purified Water	Start the mixer on a moderate fast speed.
Disodium EDTA	Mix until dissolved.
OAT COM USP	Mix with fast mixing until a lump free dispersion is achieved
Aristoflex® AVC	Add slowly avoiding clumping. Mix until smooth and homogenous. Commence heating to 75C-80C.

Into the premix vessel add:

Crodamol AB	
Parsol MCX	
Parsol 1789	
Parsol 340	
Cetyl Alcohol	
TEGO® Care 450	Commence heating the premix vessel to 75-80C.

When both vessels are at 75C-80C add the premix vessel into the main vessel:

Homogenize for 5 minutes.

After 5 minutes switch off the homogeniser.

Commence cooling to 23C.

Into the main vessel add:

Dimethicone	Mix until dispersed.
Uniphen P-23 NIB	Mix until dispersed.

Adjust the stirrer speed during the cooling phase to ensure adequate batch turn over.

Cool to 23C and check the product specifications.

Product Specifications

pH	5.50-6.30
Viscosity	20-50,000cps LVT TBAR C Speed 5, 1 minute
Colour	Off-white
Appearance	Mobile viscous cream

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