

# Alginate Cream Gel SPF30

Emulsion gel for light, non-greasy sun protection

## Inside the Formulation

### **PROTANAL® ESTER ERK 2515**

Alginate esterified with Propylene Glycol is able to stabilize oil droplets in emulsifier free formulations very efficiently.

### **EUSOLEX® T-AVO**

Alumina free Titanium dioxide coated with special Silica to allow combinations with Avobenzone.

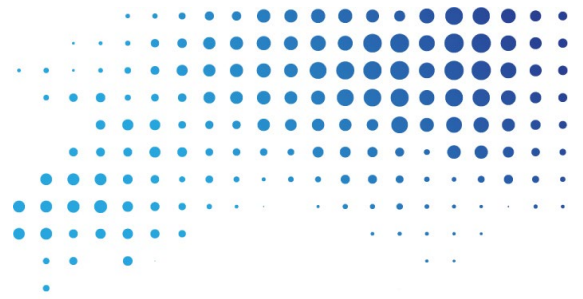
### **BRONTIDE® BG**

Butylene glycol from natural, plant-based sugars using safe and sustainable fermentation-based process technology.

### **RHEOZAN® SH**

This hetero-polysaccharide is a thickening and stabilizing hydrocolloid giving aqueous solution of high viscosity and high yield value even at low concentrations, not affected by temperature. This product displays pseudo-plastic non thixotropic behavior.





**Formulation reference : Alginate Cream Gel SPF30**

**807-1-2**

Phase	Product Name	INCI	%-w/w	Supplier
A	DUB DNPG	Neopentyl Glycol Diheptanoate	5.95	Stéarinerie Dubois
A	Tinosorb® S	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	5.95	BASF
A	Eusolex® OS	Octylsalicylate	3.60	Merck
A	Eusolex® HMS	Homosalate	3.60	Merck
A	BLANOVA® Vitamin E Acetat	Tocopherol Acetate	1.00	Azelis
A	Protanal® Ester ERK 2515	Propylene Glycol Alginate	1.50	DuPont/FMC
B	demin. water	Aqua	67.84	
B	Paratexin® PE	Phenoxyethanol	1.00	Azelis
B	Eusolex® T-AVO	Titanium Dioxide, Silica	3.00	Merck
B	Rheozan® SH	Succinoglycan	0.50	Solvay
B	Brontide® BG	Butylene Glycol	5.00	Genomatica
B	BLANOVA® Active D-Panthenol 75%	Panthenol, Aqua	1.00	Azelis
B	Titriplex III	Disodium EDTA Dihydrate	0.06	

**Manufacturing Instructions**

Heat phase A (without Avicel) up to 75°C and mix until completely dissolved.

Add Avicel to phase A and homogenize.

Add heated phase A to well-pre-dispersed phase B (rt) and homogenize.

**Specification**

Flow point [mPa] 1500(25°C)

Viscosity@ 1/s [mPas] 20000 (25°C)

Storage Test @40°C: 3 months; @50°C: 1 month; Thaw- Freeze- cycles (-18°C/+40°C): x

Formulation developed by Azelis Personal Care



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