



# Ironman SPF 10

This man`s protecting cream contains iron that slows down the aging process. Broccoli extract ideally nurtures his skin & protects it against the atmospheric damages. Very light and creamy texture with non-sticky effect answers the skin care needs of modern man.

## Inside the Formulation

### **CARBOPOL® SF-1 OS POLYMER**

Acrylates copolymer, alkali-swelling rheology modifier targeting skin care, sun care, and color cosmetic applications containing pigments.

### **HYDRAMOL™ PGPL ESTER**

Very mild and completely water-soluble ester. It exhibits excellent clarity in aqueous systems, making it the perfect additive for specialty hair and skin formulations such as facial toners, makeup removers, and hair detanglers.

### **ACTIPHYTE™ BROCCOLI**

Provides a mixture of vitamins, fatty acids, and minerals that help to protect skin cells and smooth the skin surface.

### **HEMA'TÎTE™**

Stone extract, rich in iron. Powerful active for collagen synthesis stimulation: Hema'tîte can be used for anti-aging skin care.

### **PEMULEN™ EZ-4U POLYMERIC EMULSIFIER**

Pemulen™ EZ-4U polymeric allows greater formulation flexibility in a cost-efficient manner while offering robust emulsion stabilization, freedom from HLB constraints, stability over a wide pH range, and flexibility for cold or hot processability all at low use levels.

### **MAISITA 9040**

Natural corn starch gives a smooth and non sticky effect on skin.



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Formulation reference : 002-2-4

Phase	Raw Material	INCI	%w/w	Supplier
A	Demineralized water	Aqua	61.95	
A	Carbopol® SF-1 OS polymer	Acrylates Copolymer	3.00	Lubrizol
A	Brontide™	Butylen Glycol	3.00	Genomatica
A	EDTA	EDTA	0.10	
A	Blue (sol.0,1%)		0.20	
A	TEA		0.60	
A	Alcohol	Alcohol Denat.	3.00	
B	Rhodicare T	Xantan Gum	0.10	Solvay
B	Glycerin	Glycerin	4.00	
C	Blanova® GA 20	Octyldodecanol	6.00	Azelis
C	Schercemol™ OLO ester	Oleyl Oleate	5.00	Lubrizol
C	Blanova UV-OCR	Octocrylene	4.00	Azelis
C	Blanova UV-BMDBM	Butyl Methoxydibenzoylmethane	0.75	Azelis
D	Blanova® AOX Mixed Tocopherols 90% (nat.)	Tocopherol	0.30	Azelis
D	Pemulen™ EZ-4U polymeric emulsifier	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.20	Lubrizol
E	Paratexin PE	Phenoxyethanol	1.00	Azelis
E	Actiphyte™ Broccoli	Aqua & Glycerin & Apium graveolens cell culture extract	2.00	Lubrizol
E	Hema'Tîte™	Hematite Extract	1.50	Gattefosse
E	Maisita 9040	Zea mays (corn) starch	3.00	Agrana
E	Woods Essence	Parfum	0.30	IFF

**Manufacturing Instructions**

Premix phase B - heat to 75°C to dissolve the Blanova UV-BMDBM. Leave to cool down to 35-40°C.

Premix phases A and C.

Add phase B to phase C and mix well.

Add mixed B&C to phase A. Mix on fast stirrer.

Add components of phase D and mix until homogeneous.

**Specification**

pH 5.5  
 Stability Testing 3 months stable @ 45°C, 5°C & RT x 5  
 Viscosity 10 880 cP (Brookfield RV Spindle 5, 20 RPM)

Formulation developed by Azelis Personal Care



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