

Sun Rays : Environmental Conditions & Phototypes



Solar Spectrum:

- **Photon flux**
- 3 types of rays: **Infrared** (IR: invisible, create heat/ **Visible Rays** (visible light, colours, glare) / **Ultraviolet** (UVA, UVB, and UVC – *short wavelength*)
 - Ultraviolet light causes cellular damage, sunburn, premature aging of the skin (even skin cancer in the medium term)
 - They cause ophthalmia and cataracts

THE MOUNTAIN ENVIRONMENT IS SPECIFIC AND EXTREME

- **Refraction:** Snow 40% to 90% - Sand 5% to 25% - water 10% to 30%
- **High Altitude:** Cold, snow, wind, and dry air.

This environment amplifies the intensity of the rays and accentuates aggression and dehydration of the skin

The different photo-types of skin:

I: Very light and pale white skin- *always burns, never tans*

II: Light White Skin -*burns easily, tans minimally*

III: Medium Light Brown Skin -*burns moderately, tans uniformly*

IV: Medium Brown Skin -*burns minimally, always tans well*

V: Dark Brown Skin- *rarely burns, tans profusely*

VI: Dark Brown to Black Skin -*never burns, deeply pigmented*

Choice of SPF Factor

Choix selon votre type de peau et l'exposition / Choice depending of your skin and sun exposure			
Type d'exposition / Exposure	Exposition modérée Moyenne Montagne, Plaine Moderate exposure Medium Mountain	Exposition Importante Montagne, exposition longue High exposure Mountain, long exposure	Exposition Extrême Glaciers, Tropiques Extreme exposure Glacier, Tropics
Type de Peau / Skin	SPF 30-50 Haute Protection High Protection	SPF 50 + Très Haute Protection Very High Protection	SPF 50 + Très Haute Protection Very High Protection
	Peau extrêmement sensible au soleil <i>Extreme sun sensitive skin</i>	SPF 30-50 Haute Protection High Protection	SPF 50 + Très Haute Protection Very High Protection
	Peau sensible au soleil <i>Sun sensitive skin</i>	SPF 15-20-25 Moyenne Protection Medium Protection	SPF 30-50 Haute Protection High Protection
	Peau intermédiaire (bronzage progressif) <i>Intermediate skin (tans progressively)</i>	SPF 6-10 Faible Protection Low Protection	SPF 15-20-25 Moyenne Protection Medium Protection
	Peau assez résistante (bronzage facile) <i>Fairly sun resistant skin (tans easily)</i>	SPF 6-10 Faible Protection Low Protection	SPF 30-50 Haute Protection High Protection
		SPF 6-10 Faible Protection Low Protection	SPF 15-20-25 Moyenne Protection Medium Protection

Source : Recommandations AFSSAPS (désormais ANSM) - Juillet 2011

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