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Applications & Properties of Silk Proteins

Silk Proteins show high compatibility with the human skin

They closely match the amino acids in the skin. This allows prompt and close binding of these proteins to the skin. Following is a short list of the major amino acids used in the Silk Proteins.

Glycine	35.5%
Alanine	27.7%
Serine	13.5%
Tyrosine	10.3%
Valine	2.7%

Plus 13 additional amino acids including Leucine (0.7%) which promotes skin nutrition and growth.

High moisturizing ability

Silk Proteins can absorb up to 50 times their own weight in moisture. These products will regulate and replenish moisture in the skin.

Promote skin improvements

Silk Proteins soothe and reduce irritation and inflammation in the skin. They promote the production of collagen and the regeneration of skin cells.

Emulsify oil & water

Silk Proteins will reduce the oil and sebum appearance on the face because of their unique emulsifying ability.

Skin tightener

Silk Proteins act as quick acting skin tightenors. Silk Crystal Gel (560) at first offers a cooling effect, then acts to tighten the skin, reducing wrinkles and minimizing fine lines.

The same raw materials are available as finished products

The hydrolyzed and mechanically ground Silk Proteins can also be purchased incorporated into finished materials in the three-piece Celestial Dreams kit. This can add an immediate turnkey product to your line. Additionally, the finished items provide a perfect showcase for the cosmetic formulator to see how these products can be used as moisturizers, eye creams, and skin revitalizers.

Not oily, not tacky

The formulator might look at Silk Crystal Gel (560) and anticipate it would be tacky or oily. Such is not the case, as there is no tackiness or any oily field left on the skin. Silk Crystal Gel particularly is absorbed quickly and easily.

Emulsifying ability

Silk Crystal Gel (560) allows the even blending of oil and water fractions. Up to 50% of oils can be suspended into the silk gel. This ability to blend oil and water allows the cosmetic chemist to formulate with gentle, emulsion- free ingredients.

Toxicity

None by the Draize criteria after 24, 48, and 72 hours. The LD 50 dose is 8 grams/kilo.

Solubility

All the Silk Proteins are more than 3% soluble without effort into water.

Stability

Minimum shelf life of the dry powders is three years. Minimum shelf life of the unformulated Silk Crystal Gel (560) is one year when refrigerated. The powders have no preservatives

Silk proteins show high compatibility with hair

The Silk Proteins and Amino have wonderful effects on the hair, increasing body volume, improving texture, and promoting the healing of individual strands.