

### SILK PROTEIN POWDERS

*Suitable for beauty and personal care applications.*

#### Background:

Silkworm larvae produce cocoons that consist of a single strand of silk fiber. One single cocoon can produce a silk thread that reaches 1,000 feet in length.

Silk is the most durable natural fiber available. Mongols, for instance, wore garments made out of silk to prevent arrows from penetrating deeply into the flesh.

Although silk is most widely known for its traditional use in fine textiles, it has also been used nutritionally, medicinally and cosmetically since ancient times.

Silk fiber is an abundant natural source of a protein known as fibroin and has been used nutritionally for hundreds of years as a functional ingredient in pharmaceutical applications. More recently, silk fiber has been gaining popularity in cosmetic and personal care applications due to its fibroin content and valuable contribution towards nourishing the skin and hair. It is also admired for its ability to lend a smooth, silky feel to cosmetic formulations.

#### Praan Naturals Offers Two Premium Quality Silk Protein Powders:

Superfine Silk Powder is 100% natural silk protein powder that is useful in any type of cosmetic powder formulations where oil absorption, smooth application and slip are desired. Superfine Silk Powder has a particle size of < 5 microns.

Silk Peptide Powder consists of 18 silk amino acids and has excellent permeability. It is soluble in water and is used in formulations to impart the nutritive properties of silk to the skin and hair.



### SUPERFINE SILK POWDER

**INCI:** Silk Powder

**Extraction:** See Description

**Shelf Life:** 2 Years

**Origin:** China

Praan Naturals Superfine Silk Powder is a pure, silk protein powder that preserves the natural composition and physical structure of cocoon silk. The powder is extremely fine in texture and possesses a very smooth, silky feel.

Praan Naturals Superfine Silk Powder is meticulously processed to preserve the natural amino acid and trace mineral composition and physical structure of cocoon silk. To produce the powder, milled, raw silk fiber undergoes alkaline hydrolysis, dealkylation and is then dried and carefully packaged.

#### Properties:

- Particle Size: < 5 Microns
- Silk Fibroin Content: 93% Minimum
- White to Pale Yellow in Hue
- Insoluble in Water or Ethanol
- Balances Moisture
- Absorbs Oil
- Excellent Air Permeability
- Softens Fine Lines
- Decreases Reflective Light
- Provides a Silky Texture
- Enriches Formulations With Protein





# PRAAN naturals®

## Ethically Sourced Ingredients

### SUPERFINE SILK POWDER (CONTINUED)

#### Uses:

Superfine Silk Powder is valued as a filler in mineral makeup formulations to help soften the appearance of fine lines, provide moisture balance, absorb excess oil and provide a silky slip. In addition to being a great filler base for mineral makeup, Superfine Silk Powder can also be used in any type of powdered formulations where oil absorption and a silky slip are desired. It is an exceptional alternative to talc in body and face powders. It helps decrease reflective light from the skin's surface creating a soft glow. The fine particle size makes it easy to incorporate into cosmetic formulations.

#### Superfine Silk Powder is Well Suited for the Following Personal Care Applications:

- Mineral Makeup
- Cosmetic Powders
- Facial and Body Powders

**Recommended Usage:** 2-5% by weight.

**Standard Packaging:** Available in boxes.

### SILK PEPTIDE POWDER

**INCI:** Hydrolyzed Silk

**Extraction:** See Description

**Shelf Life:** 2 Years

**Origin:** China

Praan Naturals Silk Peptide Powder is a very fine, water soluble powder that consists of 18 silk amino acids. It possesses a minimum silk fibroin content of 90%. It is meticulously processed to preserve its natural composition. To produce the powder, milled, raw silk fiber undergoes alkaline hydrolysis, dealkylation and is then dried and carefully packaged.

#### Properties:

- Silk Fibroin Content: 90% Minimum
- White to Pale Yellow in Hue
- Water Soluble
- Exceptional Permeability

#### Uses:

Praan Naturals Silk Peptide Powder possesses a low molecular weight, making the powder soluble in water. Within skin and hair care formulations, Silk Peptide Powder offers exceptional permeability. It imparts a silky, smooth feel to formulations. The silk protein helps balance moisture. It supports healthy skin elasticity and shiny, healthy, strong hair.

#### Silk Peptide Powder is Well Suited for the Following Personal Care Applications:

- Skin Care
- Hair Care
- Cosmetics

**Recommended Usage:** 2-5% by weight.

**Standard Packaging:** Available in boxes.



For more information about Praan Naturals premium quality Silk Protein Powders and other certified organic and conventional ingredients, visit [PRAANNaturals.com](http://PRAANNaturals.com) or call our Customer Care department at (800) 340-0080 or (203) 702-2500.

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