

AC Cashmere Protein PF



Intense ^{botanical} Moisturization
 Natural ^{Conditioning}
 Luxury look and feel
 Ability to Protect Skin and Hair

BACKGROUND

Cashmere is synonymous with luxury and comfort. Carefully collected from the soft underbellies of pampered Kashmiri goats, cashmere wool can be woven into a variety of garments. Even the most staunch animal activist could not disagree with Cashmere. Due to the fibers delicate nature, the source (goats) are kept in pristine environments free of debris or pollutants. Combed and kempt daily, the process of extracting this soft fur is a labor of love in which a happy goat, is a productive goat.

In clothing and fabric, cashmere is near unrivaled as a luxury material; this same principle applies to cashmere in cosmetics. Due to the nature of the fiber and its ultra-thin/fine elements, sourcing this protein has led to something unique within the industry.

SCIENCE

Composed primarily of the protein keratin, Cashmere also makes an ideal functional ingredient for cosmetics targeted towards the luxury goods market. Cashmere fiber is broken down into random peptide sequence through a combination of acid and enzymatic hydrolysis. The resulting product has an average molecular weight of approximately 2,000. Composed entirely of amino acids, the hydrolyzed fiber is highly hygroscopic; drawing moisture to itself from the environment. Due to its molecular weight and amino acid composition, the hydrolyzed cashmere is also an exceptional film former. Films of protein have been shown to smooth the cuticle of the hair.

The resulting fibers show higher shine and improved combability, characteristics typically associated with an improvement in the condition of the hair. At recommended use levels, these benefits can be perceived in salon tests. Soluble protein hydrolysates in the 1000 – 3000 molecular weight range

Code Number: 20584PF

INCI Name: Hydrolyzed Wool
INCI Status: Conforms
REACH Status: Complies
CAS Number: 69430-36-0
EINCS Number: 274-001-1

Origin: Animal

Processing:
 GMO Free
 No Ethoxylation
 No Irradiation
 No Sulphonation

Additives:
 Preservatives: None
 Antioxidants: None
 Other additives: None

Solvents Used: Water

Appearance: Clear to Hazy Amber Liquid

Soluble/ Miscible: Water Soluble
 100% Biodegradability

Microbial Count: <100 opg,
 No Pathogens

Suggested Use Levels: 2.0 - 5.0%

Suggested Applications:
 Moisturize, Condition, Protect

Benefits of AC Cashmere Protein PF

- Great Overall Conditioning
- Intense Moisturizing Benefits
- Provides Protection

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act as colloids in solution and as such they reduce the damage produced by typical surfactants. This property may be utilized to produce shampoos that are less stripping, or to improve the after-feel of body washes. **AC Cashmere Protein PF** is compatible in anionic, cationic, and amphoteric systems. It is also soluble in up to 75% ethanolic solutions. In systems thickened with salt sensitive rheological agents attention should be paid to the Ash content.

BENEFITS

Including **AC Cashmere Protein PF** in formulations will set your product above the rest with and heir of superiority that only comes with luxury goods. In addition to the high levels of marketability, this protein provides a litany of other benefits, including its overall ease of use in formulations. Being a film former by nature also leads to benefits such as increased shine, hair combability, and reduced stripping in formulations for sensitive environments such as hair and skin. **AC Cashmere Protein PF** is the luxury material that will bring your product to the next level through superior marketability, and development.

References

- 1) Lauriere, M. et al. 2006. Contact Dermatitis, Environmental and Occupational Dermatitis. Hydrolysed wheat proteins present in cosmetics can induce immediate hypersensitivities. 54(5): 283-289