

FUNCTIONAL INGREDIENTS FOR PET FOOD

*Optimized feed recipes with
APUNA® apple extracts, fibers and pectins*



FUNCTIONAL INGREDIENTS

from apples and citrus fruits

Since its establishment in 2009 as a subsidiary of the Herbstreith & Fox Group (H&F Group), our company has focused on providing innovative and resource-efficient solutions in the field of animal feed. Today, we offer a diverse range of premium-quality ingredients tailored to meet the unique nutritional requirements of pets and livestock, while also providing feed manufacturers with innovative solutions for optimizing their production process. We are driven by the commitment to advance and provide sensible animal feed solutions for the future.

At the H&F Group, our products are manufactured in state-of-the-art production facilities in Germany at the Neuenbürg and Werder (Havel) sites, where they

are subject to the highest standards of hygiene and quality control.

Our company is committed to ongoing product development to ensure that our animal feed solutions meet not only current but also future requirements. Our role is not simply that of a supplier. We are a reliable partner, offering customized solutions and individual advice to meet your specific needs.



NATURAL BROWN COLORING WITH APPLE EXTRACTS

APUNA® Extract

APUNA® Extracts are apple-based feeds with a product-specific brown coloring. They provide natural color support.

Advantages of APUNA® Extract in the formulation of feed

- ✓ Clean Label
- ✓ Grain-free
- ✓ Easy to dose
- ✓ Product-own tan
- ✓ Autoclavable
- ✓ High acceptance



Product variants

APUNA® EXTRACT PURE

- Intensive brown coloring
- Liquid
- Feed material

APUNA® EXTRACT INTENSE

- Very intensive brown coloring
- Liquid
- Feed material

APUNA® EXTRACT DRY

- Very intensive brown coloring
- Powdery
- Complementary feed

Applications

APUNA® Extract is used in a wide range of pet food products, for example in snacks, sauces and patés, as well as in vegan and vegetarian recipes.



CRUDE FIBER ENRICHMENT WITH APPLE FIBERS

APUNA® Fiber

Dietary fibers promote a healthy intestinal microbiota and help regulate digestion. With APUNA® Fiber we offer an apple fiber to enrich your pet food recipes with crude and dietary fiber.



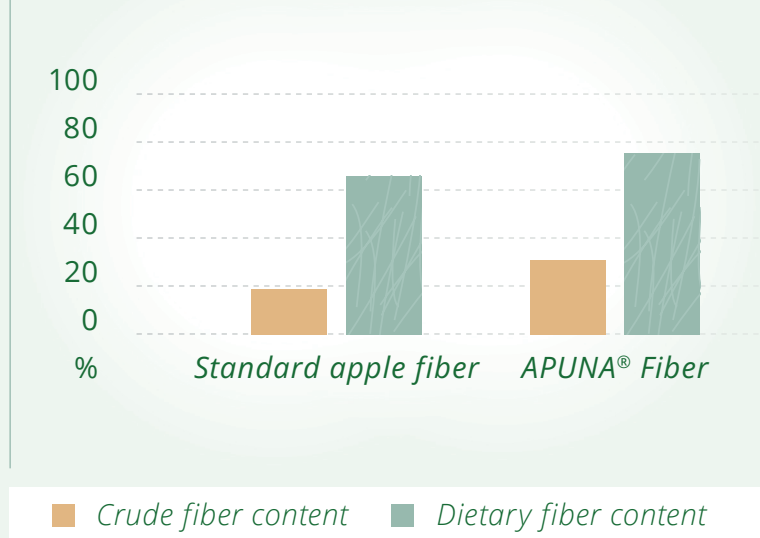
Advantages of APUNA® Fiber in the feeding of dogs and cats

- *Grain-free, low-calorie source of dietary fiber*
- *Supports digestion*
- *Improved faeces quality*
- *Feed material*

Applications

APUNA® Fiber is used in a wide range of pet food products, for example in wet food, dry food, snacks and dietary recipes.

Crude fiber and dietary fiber content



TEXTURIZING WITH APPLE FIBERS

APUNA® Solution Apple Fiber Concentrates (AFC)

Our functional apple fibers offer unique added value in the formulation of pet food. They are ideal for water binding, water retention, texturizing and stabilizing pet food.

Advantages of APUNA® Solution AFC 200 in the formulation of feed

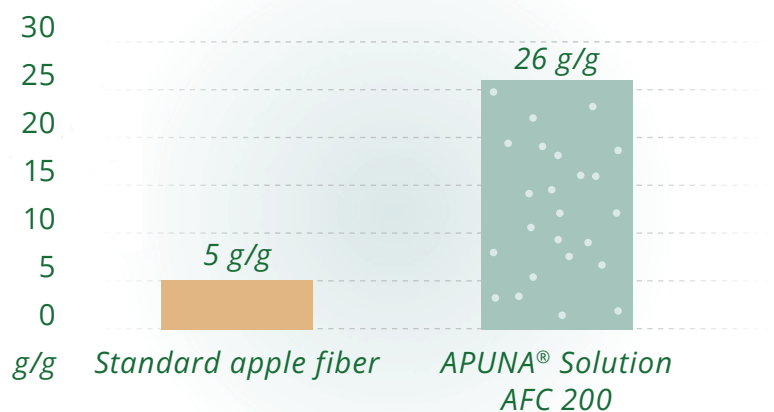
- ✓ Viscosity increase
- ✓ Autoclavability
- ✓ Build-up of yield points
- ✓ Typical apple to neutral sensory profile
- ✓ Very high water binding
- ✓ Feed material

Applications

APUNA® Solution AFC 200 is used in a wide range of pet food products, for example in wet food or semi-moist snacks.



Water binding capacity



GUT STABILIZATION WITH APPLE PECTINS

APUNA® Solution PECT

APUNA® Solution PECT is a product group comprising various pectins, e.g. high and low methylester pectins, but also tailor-made pectin blends. As prebiotics, pectins have a positive effect on the gastrointestinal tract of pets.



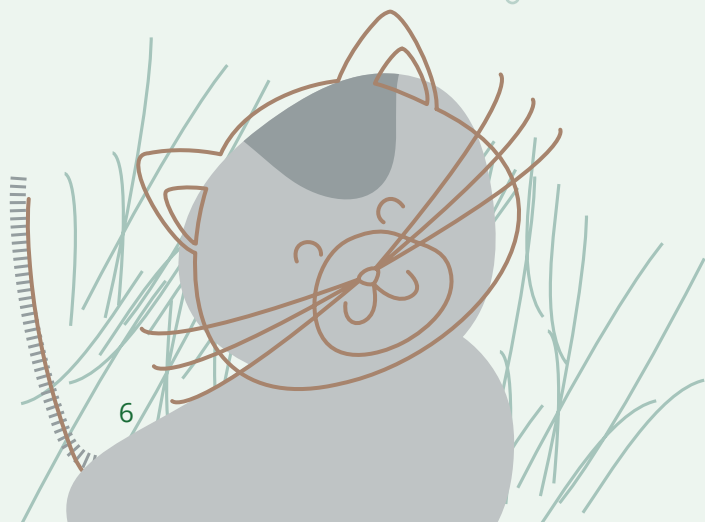
Advantages of APUNA® Solution PECT in the feeding of pets

- *Prebiotics*
- *Stimulates intestinal flora*
- *Improves faeces quality*
- *Promotes digestion*
- *Supports water management*



Applications

APUNA® Solution PECT is used as a prebiotic both in special recipes (powder, tablets) as well as in complete feeds.





FEED MATERIAL & COMPLEMENTARY FEED FOR HORSES

APUNA® horse feed

Our range of grain-free horse feeds with apple as the main ingredient not only provides a variety of taste but also helps your horse's digestion.



Advantages of APUNA® Prebiotic
Natural support for digestive problems
such as faecal water and diarrhoea



Advantages of APUNA® Magenschutz
Natural support for gastric
problems



Advantages of APUNA® Apfel-Mix
Can be used as a mash or for
refining mueslis



Advantages of APUNA® Pferdeleckerli
Grain-free treats

Also available online at apuna-shop.de

agro Food Solution GmbH is a member of



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