

AMN Pea Starch Concentrate in Petfood

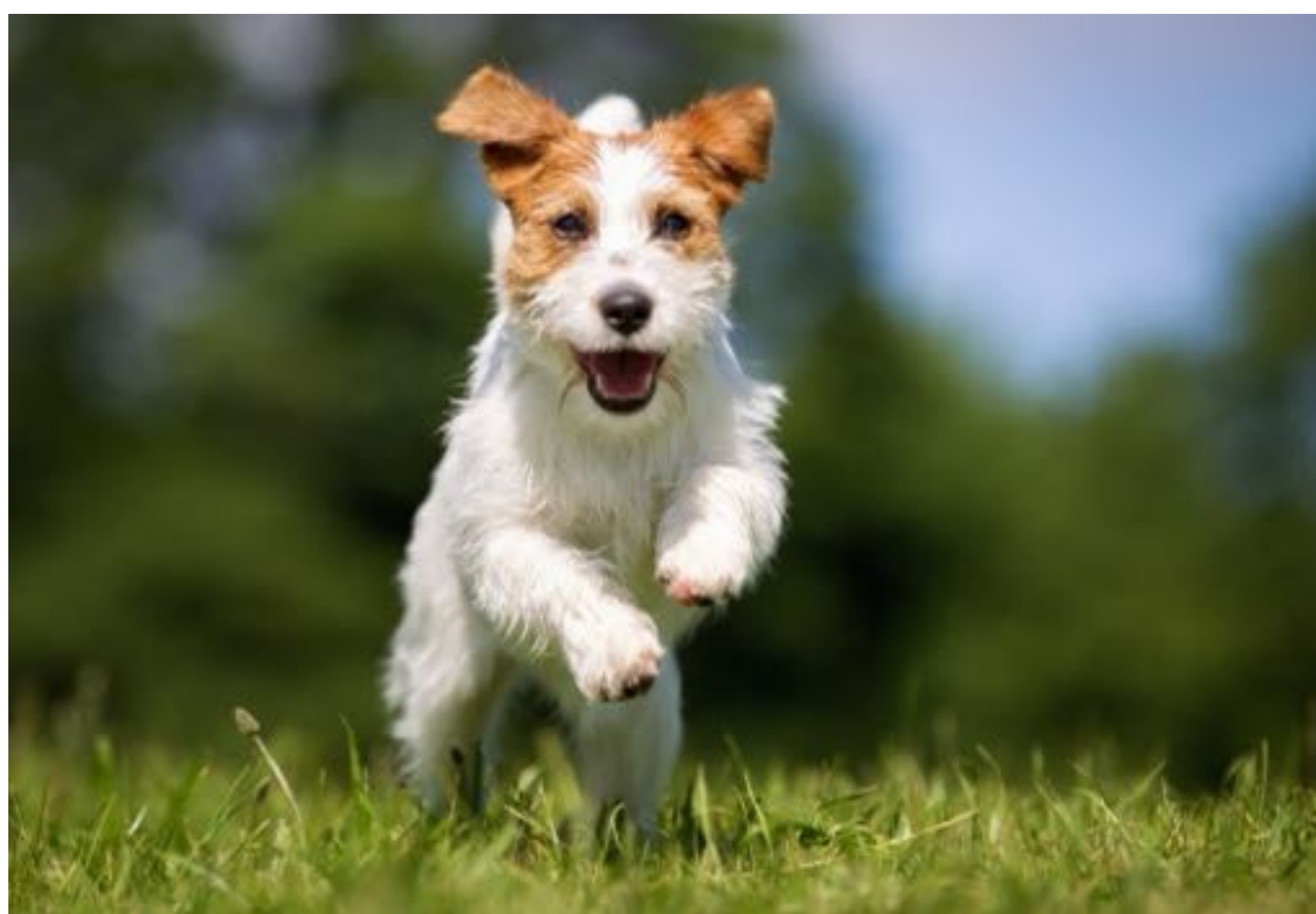
All Natural and Sustainable Ingredient

AMN Pea Starch Concentrate (PSC) is produced from yellow pea (*Pisum Sativum*). PSC contains approximately 73% of native starch (dry matter basis), which is highly functional and digestible.

In addition, PSC contains about 10% nutritious pea proteins known as high quality 7S and 11S globulins. Due to a low fat content, stability and a long shelf life are ensured.

AMN Pea Starch Concentrate is produced by a dry process technology known as air classification. Air classification classifies molecules according to their molecular weight so that small, light molecules are taken with air-stream, while large, heavy molecules are separated by the laws of gravity.

In the process, no chemicals or water are used, thus AMN PSC will preserve all water soluble compounds (vitamins, antioxidants and others). This process ensures a natural and sustainable production with no waste generation..



AMN Pea Starch Concentrate - functional, nutritious and palatable

AMN Pea Starch Concentrate is successfully used as ingredient in dry, wet and semi-moist Petfood formulations as well as in the snack segment. AMN PSC is a clean label ingredient suitable for grain free diets.

Key features

Clean label

No water, no chemicals added

Non GMO

Mycotoxin free

73% high functional starch

10% high quality protein

High digestibility

All natural

Good replacer of high quality potato starch

Rich in amylose

Medium/low glycemic index

Low in oligosaccharides

Significant reduction of trypsin inhibitor

Fine grinded particles leading to improved digestibility

Sustainable



AMN PSC

The air classification process significantly decreases anti-nutritional factors in the pea starch fraction, including NSP (Non Starch Polysaccharides) and oligosaccharides,

AMN PSC - structure and function

The air classification process keeps the starch configuration in native state, preserving the high functionality of the product characterized by its high binding, gelling and viscosity properties.

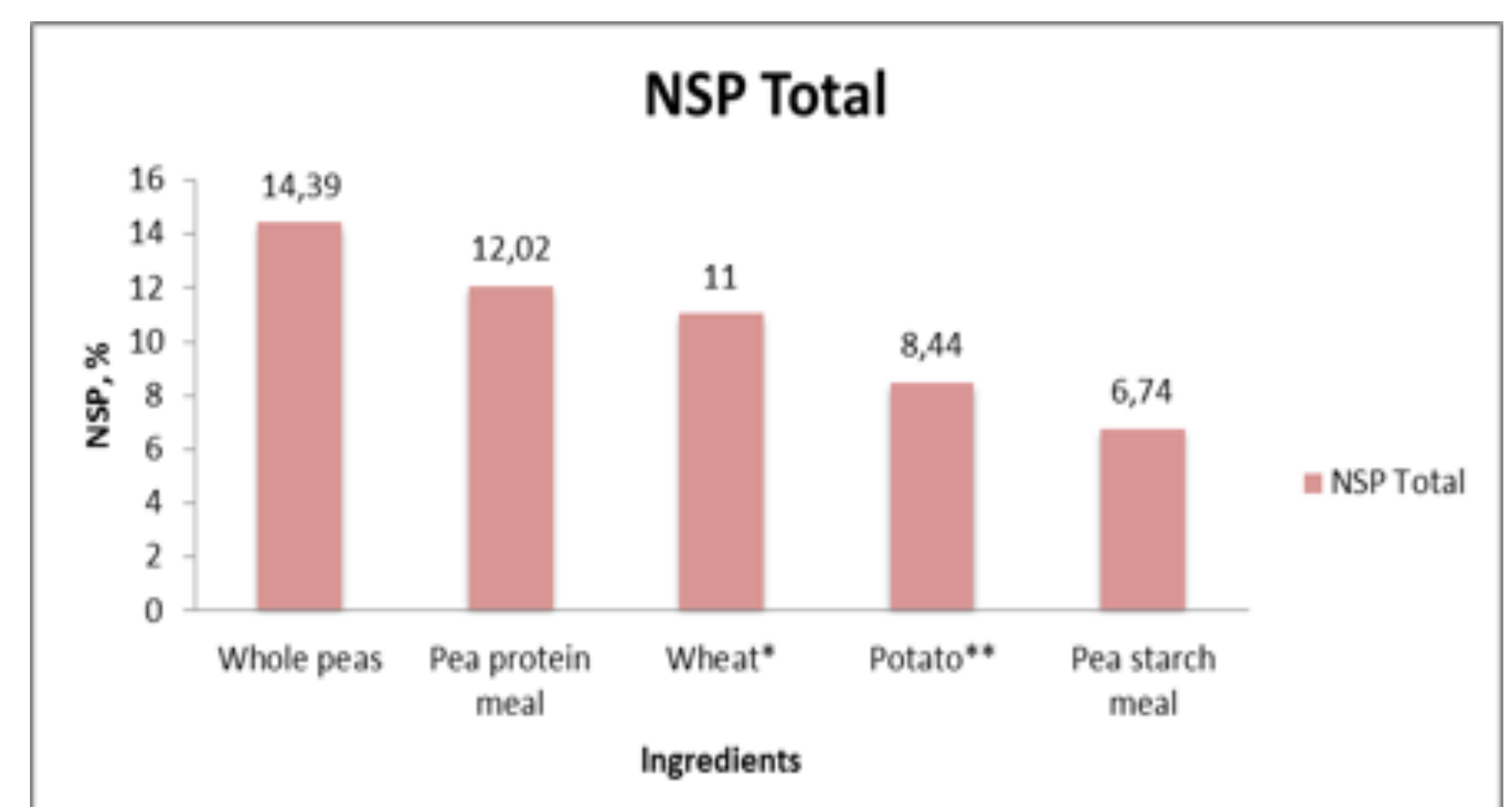
It has been proven that the use of PSC in pet food, animal and fish feed formulations, decreases the generation of dust, minimizing product losses and increases the overall pellet quality.



Pea starch digestibility & palatability

AMN Pea Starch Concentrate is a highly nutritious and digestible product. We have succeeded reduced the NSP and the oligosaccharide content. Digestibility (%) tested in a mink experimental model for digestibility, indicates that digestibility of native starch is 86% and increase up to 96% after thermal treatment.

This makes AMN Pea Starch Concentrate a high quality ingredient suitable for inclusion in Petfood formulations. AMN PSC has shown high palatability at high inclusion levels in Petfood formulations!



Source: AM Nutrition

High functional starch

The two major components of starch are amylose and amylopectin. When starch is heated in excess of water, the crystalline structure is disrupted and water molecules form hydrogen bonds between amylose and amylopectin. This causes an increase in granule swelling and solubility. Pea starch is a starch high in amylose and forms stable gels with low degree of syneresis. Pea starch has a high extent of retrogradation

The **natural** and **sustainable** way

Updated: August 2023