

TRIGEIA

With the textured wheat protein Trigovit® Tex, Trigea serves the pet food industry's growing demand for renewable raw materials for the production of sustainable feeds. Trigovit® Tex is a plant protein source and is suitable as a structure-giving, natural solid for optimising wet pet food in terms of texture and appearance as well as for protein enrichment of the end-consumer products.

Trigovit® Tex

for plant-based wet pet food

General properties

- Purely plant-based source of protein (up to 75 % protein content)
- Meat-like texture and unique crunchiness
- Neutral in odour and flavour
- Suited as a carrier for fragrances and flavourings
- Different forms and colours possible
- Preferred use after rehydration (swelling and water absorption)
- Simple processing, thanks to short soaking times
- High water absorption
- 100 % GMO-free

Benefits

- Increase of the protein contents in pet food applications
- Suitable for vegan and hybrid products
- Gives the end-consumer product the desired texture
- Optimisation of sensory properties
- Creation of fibrous or granular structures
- Reduction/avoidance of gel build-up
- Savings in binding agents
- Compensation for fluctuating raw material qualities (e.g. offal)
- High process stability (also in autoclaves)
- Uncomplicated storage at room temperature and simple handling

Field of application

When rehydrated, Trigovit® Tex products realistically replicate the texture of meat and can serve as the basis for vegan pet food or hybrid products with reduced meat content. The products are very well accepted by dogs and cats because the texturates themselves are sensory neutral and take on the taste of the other ingredients. Trigovit® Tex products are characterised by their high water-binding capacity. They can absorb up to 2.5 times their own weight in water and are therefore suitable for optimising the texture and feel of wet pet food. Unwanted gel or moisture build-up in the autoclave box can thus be avoided. The use of further conventional binding agents can thus be reduced or even avoided.

The structure of the wet pet food becomes more homogeneous and quality fluctuations in the starting material can be absorbed by a proportional substitution of meat by Trigovit® Tex. The Textured Vegetable Proteins (TVP) are a renewable alternative to animal proteins and can be produced in different colours and forms according to requirements.



100 % plant-based wet pet food with Trigovit® Tex.



+50 % volume increase
Trigovit® Tex after water intake.



Plant-based protein source

- Renewable raw material from Europe
- Short transport routes, fewer emissions
- Smaller carbon footprint of the end product

Extrusion of raw materials for pet food

Extrusion is a thermo-mechanical refinement process in which the raw material to be extruded, such as proteins, is pressed through a previously-defined opening, using pressure and temperature. Trigovit® Tex can be produced in a variety of different forms and colours and can also be adapted to comply with individual requirements. The protein contained also enhances the nutritional profile of the end-consumer products.



Overview: Trigovit® Tex for plant-based wet pet food applications

Pâté with chunks (plant based)



Trigovit® Tex Chunks SCF 110

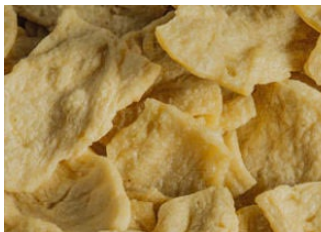
Further ingredients from the Trigovit® portfolio:

- Trigovit® Protein (protein enrichment and texturiser)
- Trigovit® Flour (processing aid and texturiser)
- Trigovit® Starch (binding agent)

Nutritional values	
Fat	2.8
- saturated fatty acids	0.3
Carbohydrates	10.5
- sugar	0.6
Fibre	0.6
Protein	12.2
Salt	0.2

calculated, 100 g/in g

Flakes in Sauce (plant based)



Trigovit® Tex Flakes LCS 110



Trigovit® Tex Fibres SCM 110



Trigovit® Tex Granules LBF 153

Further ingredients from the Trigovit® portfolio:

- Trigovit® Starch (binding agent)

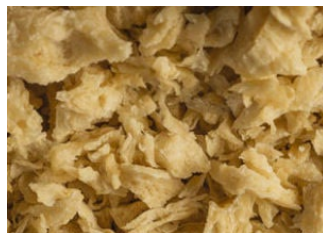
Nutritional values	
Fat	0.7
- saturated fatty acids	0.2
Carbohydrates	2.9
- sugar	0.2
Fibre	0.4
Protein	10.8
Salt	0

calculated, 100 g/in g

• Classic wet pet food (plant based)



Trigovit® Tex Granules SBF 113



Trigovit® Tex Granules LCF 130

Further ingredients from the Trigovit® portfolio:

- Trigovit® Protein (protein enrichment and texturiser)
- Trigovit® Flour (processing aid and texturiser)
- Trigovit® Starch (binding agent)

Nutritional values	
Fat	1.1
- saturated fatty acids	0.2
Carbohydrates	6.5
- sugar	0.4
Fibre	0.6
Protein	16.4
Salt	0.1

calculated, 100 g/in g

Everything from one source: combination of Trigovit® products

By adding the hydrolysed protein Trigovit® Protein 3701 SD with a protein content > 82.2 %, the nutritive values as well as the texture of the end-consumer products can be influenced according to requirements.

