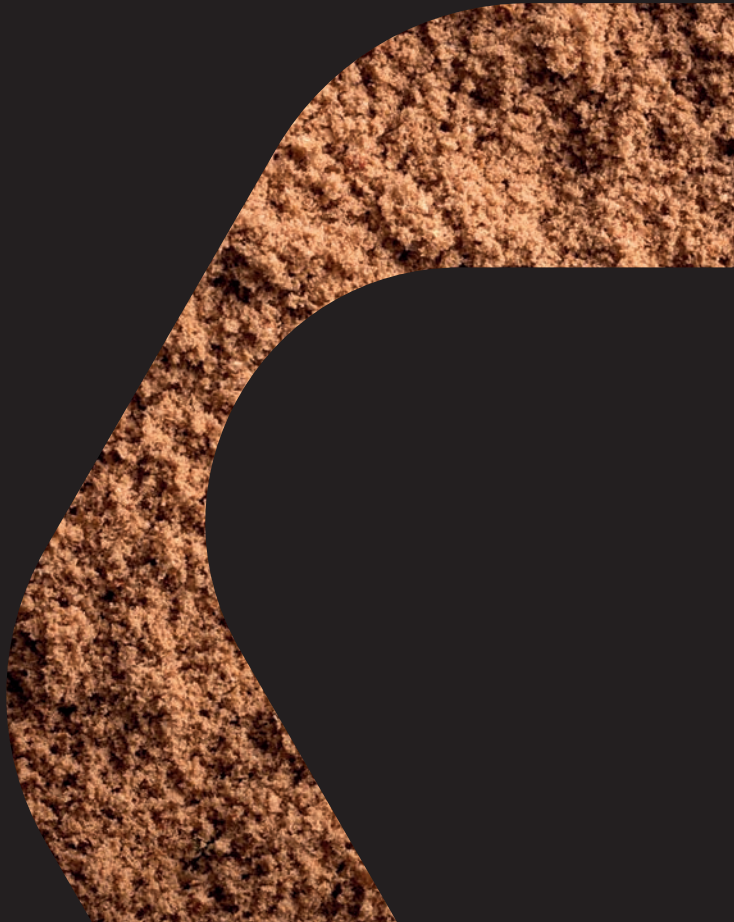


# Smarter protein and nutrition.

[spryng.pro](https://spryng.pro)





## Smarter protein and nutrition.

Ynsect is **the world leader in the production of insect protein** with 3 vertical farms located in France and in the USA.

Under our brand Sprÿng, we offer **high-quality protein ingredients** derived from mealworms that enhance the health and nutrition of pets. For us, this **powerful protein** is the key to **re-balancing our pets' nutrition, health and the environment**.

Our extensive R&D team enables us to support pet food producers and brands in developing **premium, natural and more sustainable** products.

This can range from **complete and balanced meals to treats** that will meet all the needs of pets.

# Our range of products.

Thanks to a non-seasonal and optimized diet made from agricultural by-products, our natural mealworm-based ingredients offer a **consistent quality**.

We offer a wide range of ingredients for **treats, dry & wet pet food** applications, including:

## **Protein**<sup>70</sup>

Defatted mealworm powder

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## **WetPro**<sup>15</sup>

Whole blanched ground mealworms

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## **Hydrolysate**<sup>70</sup> and **Hydrolysate**<sup>15</sup>

Dry and liquid protein hydrolysate from mealworms

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## **Oil**<sup>6-9</sup>

Oil extracted from mealworms

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## Benefits.



**Consistent quality**



**Low ash content**



75% **unsaturated** fatty acids included **omega 6** (40%) and **omega 9** (60%) in the oil



**Low impact**



**Neutral taste and odorless**



**High quality protein**  
Highly digestible  
20% more essential amino acids vs adult dog and cat's requirements<sup>1,2</sup>



**Histamine < 5ppm**

<sup>1</sup>For our dry ingredients

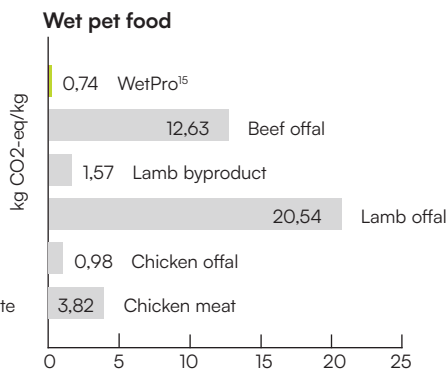
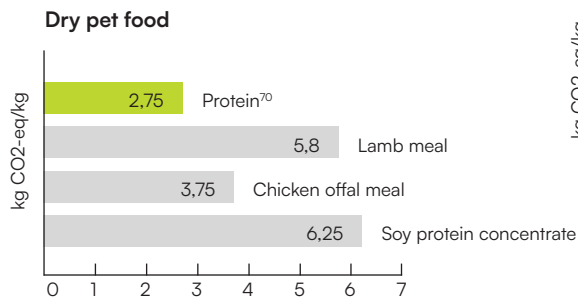
<sup>2</sup>Fediaf

# Our mealworms ingredients bridge the gap between nutritional & environmental pressures.

The increasing demand for high quality pet food has vastly increased the environmental “pawprint” of the pet food industry.

The challenge is therefore how to make pet food more sustainable while maintaining their high quality — mealworm protein is one of the solutions.

- **Agricultural by-product feed:** less land area for agricultural food supply
- **Compare to other premium petfood ingredients :**
  - Low GHG emissions
  - Low water footprint



**Sources**  
Agribalyse | 3 WFLDB | Ynsect

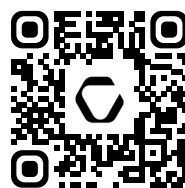
## Contact.

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# Protein<sup>70</sup>

Our Protein<sup>70</sup> is a highly digestible, natural source of premium protein, fat and fibers obtained from mealworms.

With a small particle size (<1 mm), our meal is **easy to incorporate** and can be combined with other ingredients, opening the door for blended products that take advantage of the **complementarity** between mealworm protein and plant ingredients.

Protein	70%
Fat	10%
Fiber	8%
Moisture	4%
Ash	4%



High protein content  
>70% (concentrate)



Low ash content



89% peptic digestibility



Histamine <4,5 ppm



Low fat content (linoleic acid)



20kg bags and  
500kg big bags.



Store in a dry, cool and clean  
environment in the original  
unopened bags.



Best if used within 12 months from  
manufacturing date. Contains  
added natural Tocopherol.

# WetPro<sup>15</sup>

Our WetPro<sup>15</sup> is a high-quality frozen raw material with 15% of protein. Whole mealworms are blanched and ground to get this paste consistency.

With a small particle size (<700µm), our frozen ingredient is **easy to incorporate and to combine with other ingredients to texturize**.

Protein	15%
Moisture	75%
Fat	8%
Fiber	1%
Ash	1%



Protein content >15%



Linoleic acid (essential fatty acid)



89% peptic digestibility



Histamine <1 ppm



Variable weight frozen slabs on pallets (ca. 25kg).



Store frozen at -18°C.



12 months from production respecting storage conditions. Contains added natural Tocopherol.



# Hydrolysate<sup>70</sup> & Hydrolysate<sup>15</sup>

Our liquid and dry hydrolysates, Hydrolysate<sup>70</sup> & Hydrolysate<sup>15</sup>, are enzymatically proteolyzed products made from mealworms whose peptides are < 12 kDa.

With high protein content and a small particle size (<250µm), our hydrolysates are **highly digestible** and easy to incorporate.

## Hydrolysate<sup>70</sup>

Protein	70%
Fat	14%
Moisture	5%
Ash	4%
Carbohydrates	4%

## Hydrolysate<sup>15</sup>

Protein	16%
Moisture	75%
Ash	5%
Fat	3%
Fiber	1%



Reduce food  
adverse reaction



90% peptic  
digestibility



No crude fiber



High protein  
content >70%



Low ash  
content



Histamine <1 ppm



**Dry** - 20kg bags and  
500kg big bags.



Store in a dry, cool and  
clean environment in the  
original unopened bags.



**Dry** - Best if used within 12 months  
from manufacturing date.

**Liquid** - 200kg drums,  
900kg IBC.

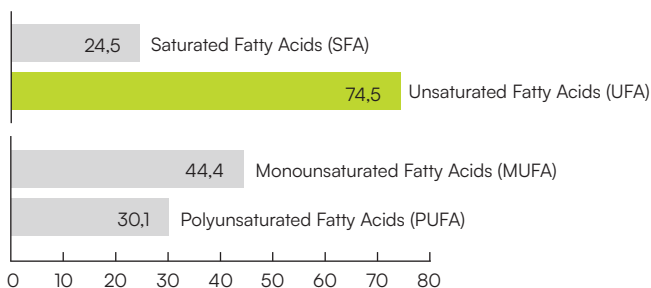
**Liquid** - Best if used within 6 months  
from manufacturing date.

# Oil<sup>6-9</sup>

**Our Oil<sup>6-9</sup> is a stable oil with a neutral taste extracted from mealworms.**

With a nice light yellow color, our oil is liquid at ambient temperature (10-25°C).  
It is a **natural high source of linoleic acid** (essential fatty acids).

## Saturated & unsaturated fatty acids (%) in Oil<sup>6-9</sup>



**40% omega 6  
60% omega 9**



**75% unsaturated  
fatty acids**



**Linoleic acid  
(essential fatty acid)**



**200kg drums,  
900kg IBC or  
bulk.**



**Optimal conservation when  
stored in the original packaging at  
ambient temperature (10°C-25°C).**



**Best if used within 12 months from  
manufacturing date. Contains  
added natural Tocopherol.**