



Full-Fat Toasted & Extruded Soybeans Premium Protein & Energy Ingredient for Modern Animal Nutrition

Full-Fat Toasted & Extruded Soybeans are produced using an advanced combination of **complete toasting and high-performance extrusion technology**. This modern processing method transforms pre-cleaned, finely granulated full-fat soybeans into a highly digestible and energy-rich feed ingredient.

During extrusion, controlled levels of **temperature, friction and pressure** intensively modify the soybean's cell structure. This results in **maximum nutrient accessibility**, making both protein and natural oil highly available for animal uptake.

Unlike conventional soybean meal products, this ingredient delivers a unique combination of **high-grade protein and naturally embedded oil energy** within one stable nutritional matrix.

Key Nutritional & Functional Advantages

Full-Fat Toasted & Extruded Soybeans offer multiple performance benefits:

- **Maximum protein availability** with excellent digestibility
- **Superior oil release and absorption**, with oil availability reaching **up to 91%**
- Effective elimination of **anti-nutritional factors (ANFs)**
- Strong reduction of bitter substances, significantly improving palatability
- High moisture extrusion ensures optimal cooking without protein damage
- Functional water-binding properties supporting gut stability in piglet diets
- Suitable for sensitive young animals as well as premium petfood formulations

This makes the product highly valuable in feed concepts focused on **growth, efficiency and animal health**.

Superior Oil Utilisation – More Efficient Than Soy Meal + Added Oil

A key differentiator of this ingredient is the exceptional utilisation of the natural soybean oil.

Extrusion fully opens the cell structure, allowing the oil to be released and absorbed far more efficiently than in diets where soybean meal is combined with separately added vegetable oils.

As a result, Full-Fat Toasted & Extruded Soybeans provide:

- More stable fat inclusion
- Better energy consistency
- Higher overall oil availability (**up to 91%**)
- Improved feed performance in high-energy rations



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Applications in Animal Nutrition

This ingredient is widely used across multiple species:

Piglets & Young Pigs

Thanks to high digestibility, reduced ANFs and functional water absorption capacity, the product supports early gut development, smooth digestion and optimal starter performance.

Sows

In sow diets, the combination of protein and energy helps maintain body condition and supports milk production during lactation phases.

Poultry (Broilers & Layers)

The ingredient provides a balanced supply of amino acids and highly available oil energy, improving growth rates, feed conversion and production efficiency.

Petfood

With its neutral taste, excellent digestibility and consistent nutritional value, it is increasingly applied in premium dog and cat food formulations.

Recommended Inclusion Levels

Animal Category Typical Inclusion Rate

Piglets	7–15% of the ration
Sows	10–15% of the ration
Poultry	5–20% depending on age and purpose

Composition

- Full-fat soybeans

Nutritional Values (Average per kg product)

These values represent typical average composition per kg of product:

Parameter	Value
Dry Matter	900 g/kg
Crude Protein	358 g/kg
Crude Fat	203 g/kg
Crude Fibre	61 g/kg



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Parameter	Value
Crude Ash	46 g/kg
Starch	63 g/kg
Sugar	76 g/kg
Linoleic Acid	106 g/kg
Lysine	22.5 g/kg
Methionine	5.1 g/kg
Threonine	14.2 g/kg
Tryptophan	4.7 g/kg
Net Energy (Pigs)	12.7 MJ/kg

Benefits Summary (Highlight Block)

- Maximum protein availability
- Maximum oil availability
- Oil availability up to **91%**
- Significant reduction of bitter substances → improved taste
- Optimal reduction of anti-nutritional factors (ANFs)
- Excellent suitability for piglets, broilers, layers and petfood

Shelf Life & Storage

- Several months under dry storage conditions
- Store in a cool, dry and well-ventilated environment

Product Positioning

Full-Fat Toasted & Extruded Soybeans are the ideal choice for feed manufacturers seeking a premium soy ingredient that combines:

- Highly digestible protein
- Efficient natural oil energy
- Excellent palatability
- Broad application versatility

A powerful solution for high-performance pig, poultry and pet nutrition.

Disclaimer

All values shown are average guideline figures. Product specifications may vary depending on raw material and processing conditions. Cropenta cannot be held liable for any inaccuracies, omissions or errors in this document.