

## Extruded full fat Soybeans

Extruded full fat Soybeans are the result of the development and advanced optimisation in the processing of full-fat soya beans. It involves the full toasting and extrusion processing of pre-cleaned and finely granulated full-fat soya beans. Extrusion is the latest and most advanced technology for pre-cooking of raw materials for both the food and animal feed industries. Due to a combination of temperature, friction and pressure, the extrusion process intensively changes cell structure, which results in a maximum protein and oil availability. Relatively high moisture contents are used in the extruder, which ensures an effective cooking effect. This makes it possible to fully eliminate anti-nutritional factors (ANFs) and bitter substances. The protein is not overheated either and, therefore, retains maximum digestibility. The intensive processing in the extruder damages the cell structure, considerably increasing the availability of the high-grade soya bean oil. It is very suitable for young animals such as piglets weaning calves and lambs. It is ideal for layer farms who lack the infrastructure to add soybean oil by pump.

### Nutritional values

Dry matter	900	g/kg	Magnesium	3,3	g/kg	SID MET+CYS (Swine)	7,9	g/kg
Crude protein	358	g/kg	Chloride	0,3	g/kg	SID THR (Swine)	10,9	g/kg
Crude fat	203	g/kg				SID TRP (Swine)	4	g/kg
Crude fiber	61	g/kg	Lysine	22,5	g/kg			
Crude ashes	46	g/kg	Methionine	5,1	g/kg	OE pl	13,9	g/kg
Starch	63	g/kg	Meth. + Cys.	10,5	g/kg			
Sugar	76	g/kg	Threonine	14,2	g/kg	OE lh	14,86	g/kg
Okh	234	g/kg	Tryptophan	4,7	g/kg			
NSP	216	g/kg	Layer ME	14,1	MJ/kg	D. LYS (Poultry)	19,1	g/kg
Linoleic acid	106	g/kg	NE Pigs	12,7	kJ/kg	D. MET (Poultry)	4,3	g/kg
			Energy Value Pigs	1,44	kJ/kg	D. CYS (Poultry)	4,4	g/kg
Calcium	2	g/kg	d. P (Pig)	2,1	g/kg	D. THR (Poultry)	11,6	g/kg
Phosphor	5,2	g/kg	NEL Ruminants	9	MJ/kg	D. TRP (Poultry)	4	g/kg
Sodium	0,1	g/kg	SID LYS (Swine)	18,2	g/kg			
Potassium	17,4	g/kg	SID MET (Swine)	4,3	g/kg			

Date 24-8-2019

These data are average values and calculated per kg of product.

### Composition

Full-fat soy beans

### Feeding advice

Covax Extru

### Benefits

Maximum protein availability

Maximum oil availability

Oil availability of 91% (Schothorst, 2011)

A significant reduction of bitter substances considerably improving the taste

An optimal reduction of the ANFs

### Shelf life

Several months with dry storage