

## Product information

<b>Product name</b>	<b>ExPro-OOSF Meal</b>
<b>Raw material</b>	Doublezero winter rapeseed or spring rape.
<b>Production</b>	After extraction of the rapeseed oil from the seed, the meal undergoes a careful heat-treatment under pressure. No chemical additives are used during the ExPro treatment.
<b>Appearance</b>	ExPro-00SF is brownish in colour, has a pleasant smell and a finegrained structure.
<b>Application</b>	ExPro-00SF is rich in slow soluble proteins and is thus well suited for feed mixtures for food producing animals as high-producing milk cows, rapidly growing cattle, as well as for swine and poultry, mostly for slaughter-chicken. We recommend up to 25% of the concentrate mixture to cows and cattle and 10% in feed mixture to pigs and poultry.
<b>Shelf-life</b>	When stored in a dry place. ExPro-00SF has a shelf-life of 24 month.
<b>Volume weight</b>	The volume weight is approximately 500 kg/cu.m.
<b>Handling</b>	ExPro-00SF is a feed material with a fine-grained structure and is normally stored in a flat storage. ExPro-00SF must be kept in a dry place to maintain its high hygienic quality.
<b>Mode of delivery</b>	ExPro-00SF is delivered in bulk.
<b>Price</b>	As per quotation.

2009-11-03

## ExPro-00SF Meal

Chemical specifications and nutritional values for **ExPro-00SF** meal made of double zero rapeseed. Reference values at 10.5% water content.

<b>Analysis values</b>	<b>per kg. DM</b>	<b>per kg</b>
Crude protein (%)	38.5	34.5
Pepsin soluble (% of crude protein)	87	
Buffer soluble (% of crude protein)	8	
Lysine (%)	2.10	1.88
Methionine (%)	0.76	0.68
Histidine (%)	1.1	1.0
Cystine (%)	0.87	0.78
Threonine (%)	1.73	1.55
Crude fat (according to the EC) (%)	4.0	3.6
Crude fibre (%)	13.9	12.4
Ashes (%)	7.5	6.7
Calcium (%)	0.8	0.7
Phosphorus (%)	1.3	1.3
Magnesium (%)	0.5	0.5
Glucosinolates according to Afnor ( $\mu\text{mol/g ff DM}$ )	3	3
Starch (%)	0.4	0.4
NDF (%)	30	27
<b>Nutritional value</b>		
Energy (MJ)		
Ruminants <sup>2</sup>	12.1	10.8
Swine <sup>1</sup>	12.2	10.9
Poultry <sup>1</sup>	8.4	7.5
Digestible crude protein (g)		
Ruminants	326	292
Swine	307	275
Poultry	307	275
Protein value AAT <sup>2</sup> (g) (Amino acids absorbed in the intestines)	220	197
Protein value PBV <sup>2</sup> (g) (Protein balance in the rumen)	+75	+67
By pass protein %	65	
Intestinal digestibility %	87	

1) According to the Swedish Board of Agriculture SJVFS 2009:20

2) According to the Swedish Board of Agriculture 13.1.1999