

EXTRUDED RAPESEED MEAL **By+**



**ADVANCED, HIGH QUALITY FEED MATERIAL FROM BOHEMIA
NON-GMO ANALOGUE TO SOYA MEAL FOR HIGH-PRODUCTION DAIRY COWS**

**Non-
GMO**

WHAT IS EXTRUDED RAPESEED MEAL **By+**?

Extracted rapeseed meal modified by extrusion (controlled pressure, temperature and residence time).

**Soya
meal
replacement**

HOW IS **By+** PRODUCED?

Extracted rapeseed meal is extruded, i.e., the protein structure is modified by increased pressure and temperature at defined time period.

The production process is certified according to GMP+B1 and non-GMO standards.

**Higher milk
and meat
yield**

By+ USE?

Especially for high-production dairy cows, soya meal replacement.

By+ ADVANTAGE?

High lysine and methionine content. Up to 1% vol. crude glycerine addition for better taste. Lower price compared to non-GMO soya meal. High milk production.

**Delivery
flexibility
and
assurance**

By+ FUNCTION?

Excellent nutrition value, protein protection and better digestibility in intestines.

WHAT UDP MEANS AND WHY IS UDP IMPORTANT?

**Higher
By-Pass
protein
value**

UDP (Undegraded Dietary Protein) is a protein resistant to rumen conditions and therefore continues further to intestines, where it is degraded. Due to a high content of UDP, a minimum amount of proteins is degraded in rumen and maximally utilized in body by intestine absorption, so called „**By-Pass**“ effect, leading to a higher milk production and muscle grow. During the extrusion, the protein structure is modified, which promotes the „**By-Pass**“ effect and increase of UDP content.

**Made of
Czech
feedstock**

PREOL

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PRODUCT DATA SHEET

PRODUCT: FEED MATERIAL – RAPESEED MEAL EXTRUDED By+

Characteristics	Description/Limit
Meal appearance	Powdery, no presence of agglutinated particles >3 cm in diameter, adulterants or foreign matter
Meal aroma	Natural, typical for the feedstock, potentially slightly roasted; no organoleptically extraction solvents allowed; no malodour allowed (putrid, fungal, musty or burnt)
Bulk density	450 – 550 kg/m ³
Water content	≤ 13 % hm.
Content of ash insoluble in HCl	≤ 1 % hm.
Nitrogen substances content (crude protein, CP)	≥ 32,2 % hm.
Soluble protein (SP)	≤ 14 % CP
UDP 8	≥ 70 % CP
nXP	≥ 315 g/kg
Lysine	23,36 g/kg
Methionine	7,74 g/kg

Extruded rapeseed meal complies with the Czech Ministry of Agriculture bill no. 295/2015 Sb., which complements the bill no. 91/1996 Sb. about animal feed, as amended from time to time and meets the requirements for the maximum levels of undesirable substances laid down in Directive 2002/32/EC of the European Parliament and the Council.

Produced from 00 rapeseed according to a certified system GMP+ B1

PREOL is a holder of the certificate GMP+ B1:

- The feed to be delivered is GMP+ FSA assured;
- In case of food purchase including transport, the following applies: The feed delivered is GMP+ FSA assured.

Feed material (68/2013/EU): No. 2.14.7 - Rapeseed meal feed, extruded

Addition of feed material: Crude glycerine – Up to 1%wt.

Feed material producer registration number: a CZ 800 238-01.

GMP+ xode: 2.130 Rapeseed meal, extruded

GMO free.

Expiration date: 6 months from the date of dispatch as stated in P.O.D.

Intended for direct feeding or production of feed mixtures.

