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## SPECIFICATION

### High Protein Toasted Granulated Sunflower Seeds Meal DSTU (Ukrainian national standardization system) 4638:2006

High Protein Toasted Granulated Sunflower Seeds Meal is Ukrainian origin concentrated feed by-product of Sunflower oil extraction production. It's obtained after extraction of oil from oil seeds by organic solvents in stills and evaporators. It's a valuable high protein feed product, rich set of amino acids, in particular the high methionine content, which has a positive effect on the growth and development of young animals. 100 kg of sunflower meal contents about 100 feed units and up to 41 kg of digestible protein (in terms of dry matter). Sunflower meal is unlike other oilseed meal is substantially free of antinutrients. Arabinic/xilanic index of sunflower meal relative to soybean meal is 117, which ensures high in comparison with other vegetable protein feed digestibility of protein (78-80%). The vitamin B sunflower meal is considerably higher than in soy, also it's highest content of vitamin E. Sunflower meal is rich in niacin, riboflavin, choline, biotin, pantothenic acid and pyridoxine. In addition to this sunflower meal used for feed purpose animals, birds and fish in pure form but also as additives in compound feed. Sunflower meal increases animal productivity, improves quality of animal products. It increases the fat content in milk and daily milk yield of cows. Broiler chickens: Sunflower meal is widely used in poultry feeding. These raw materials are beginning to use for chickens from 7-14 days of age. The big advantage of sunflower meal is its resistance to shock by mycotoxins, and therefore the minimum possible risk factors that accompany sunflower meal, to a lesser extent than other feeds. Laying hens: When feeding hens feeds based on sunflower meal with high fiber (20%) resulted in a substantial reduction in feed intake and daily weight gain. Non-GMO, 100% free from any coloring materials, flavors and preservatives.

HS-CODE: High Pro SFS Meal 2306300000

	Content	Specification	Typical Value
1	Fat content in %, max	2,0%	1,4-1,7%
2	Moisture in %, max	9-11%	9,2-9,4%
3	Fiber , in terms of dry substance % , max	23%	18-20%
4	Protein at the base as is, % , min	35,5%	35,5-37,0%
	Protein at the dry substance % , min	39%	39,5-41,5%
5	Soluble protein in terms dry substance % min	68-74%	70%
6	Residual solvent amount, % , max	0,08%	0,05-0,07%
7	Ash, insoluble in 10% HCl solution, in terms of dry substance % , max	1%	0,85%
8	Lead Pb, mg/kg, max	0,15	
9	Arsenic As, mg/kg, max	0,3	
10	Copper Cu, mg/kg, max	70	
11	Cadmium Cd, mg/kg, max	0,5	
12	Zink Zn, mg/kg, max	150	
13	Mercury Hg, mg/kg, max	0,1	
14	Antibiotics, content, max	Not allow	Not detected
15	Aflatoxins B1&M1, mg/kg, max	0,005	Not detected
16	Appearance	Cylindrical pellets	
17	Colour	Different shades of gray	
18	Odour	Characteristic of sunflower meal without extraneous - musty, moulds, burned	
19	Metal impurities up to 2 mm, % max	0,01	<0,005
20	Metal impurities more 2 mm, % max	Not allow	Not detected
21	Pellets diameter, mm	6-12	8
22	Pellets length, mm	10-50	10-30
23	The total energy nutrition, feed units, min	0,968	0,978
24	Radiation, BQ/Kg	<300	<50
25	Shelf life, months	4	6
26	Storage	Temperature <80 <sup>0</sup> F (27 <sup>0</sup> C), Humidity <75%. Avoid from direct sunlight.	

<b>Beneficiary: Baltcross L.P.</b> <b>Beneficiary's Acc. No.: LV57RIBR00189680N0000</b>	<b>Beneficiary's Bank: JSC Regionala Investiciju Banka</b> <b>Riga, Latvia</b> <b>SWIFT code: RIBRLV22</b>
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