

Reference Product Specification

General Information	
Product name:	Sunflower Meal
Product grade:	High-protein, pelletized
Product description:	General-purpose high-protein sunflower meal, pelletized
Intended purpose/application:	Primary animal or poultry formula feed ingredient
Regulatory reference:	DSTU 4638:2006 Sunflower Meal. Standard Specification
Certification compliance:	GMP+ B1 (feed-grade)
Physical characteristics	
Appearance:	solid cylinder-shaped pellets
Color, at 20°C:	gray to greenish-gray or brownish-gray
Odor:	characteristic of sunflower meal (as per DSTU 4638:2006)
Pellet diameter, mm:	8.0
Pellet length, mm:	12.0
Fines passing a 2-mm sieve, % by weight:	0.4
Impurities and foreign matter:	<u>Foreign matter:</u>
	Glass not allowed
	Packaging material not allowed
	Wood not allowed
	Plastic not allowed
	Sand not allowed
	Stones not allowed
	Metal not allowed
Chemical characteristics	
Moisture and volatiles content, % by weight (not more than):	10.2
10% HCl-insoluble ash at bone-dry humidity (BDH), % by weight:	0.63
Total fat and extractive substances at BDH, % by weight:	0.70
Residual solvents, % by weight:	0.05
Nutritional characteristics	
Raw protein at BDH, %:	40.03
Raw cellulose at BDH, % by weight:	20.06
Soluble proteins out of total protein content, % by weight:	70.74
Total nutrient value on dry basis:	1.12
Safety Indicators	
Mercury (Hg), mg/kg (not more than):	0.02
Cadmium (Cd), mg/kg (not more than):	0.40
Arsenic (As), mg/kg (not more than):	0.50
Lead (Pb), mg/kg (not more than):	0.50
B ₁ Aflatoxin, mg/kg (not more than):	0.05
Zearalenon, mg/kg (not more than):	0.1
<u>Radionuclides:</u>	
Cs-137 specific activity, Bq/kg (not more than):	600
Sr-90 specific activity, Bq/kg (not more than):	100
Microbiological characteristics	
Enterobacteria:	none allowed
Salmonellae:	none allowed
Mold or yeast fungi:	none allowed
Packaging, storage and shipping	
Storage conditions:	to be stored in dry, pest-free indoor areas, protected from moisture
Transportation conditions:	to be protected from moisture while in transit
Storage life:	3 (three) months from manufacture date
Packaging:	none, loose bulk
Shipping options:	railroad hopper wagons; dump semi-trailers

This is a reference product specification, provided for informational purposes only. To the best of our knowledge, all data, parameter values, and other data are correct and true, however, no guarantees can be given to that effect. The actual product specifications are subject to change without notice and can only be bindingly defined in a contractual agreement.

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