
ARKHANGELSK
ALGAE
PROCESSING SINCE 1918
ALGODARFEED –
SEAWEES-BASED
FEED ADDITIVE.
OPTIMAL CHOISE
FOR POULTRY NUTRITION

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ALGODARFEED: NATURAL FEED ADDITIVES FROM THE DEPTH OF THE WHITE SEA

Algodarfeed feed additive is an organic bioactive additive for poultry diet. It is made with the brown alga Fucus harvested in the White Sea. It contains the entire range of vitamins (A, B1, B2, B3, B12, C, D3, E, K, F, H), rare micro elements (iodine, selenium, barium, zinc, magnesium, sulfur, and others), folic and pantothenic acid, polysaccharides, amino acids, polyunsaturated acids like Omega-3.

From the point of view of biochemistry, Algodarfeed is a source of bioorganic compounds of micro- and ultra micro elements in combination with substances that have prebiotic, sedative and immunomodulatory effects on the bird's body.

Biologically active substances in Algodarfeed are even more beneficial for the well-being of poultry than its nutrients. Algodarfeed contains

1. a complex of bioorganic forms of macro- and microelements which are up to 5 times more potent than the ones from traditional mineral sources. This includes bioavailable compounds of such microelements as iodine, manganese, cobalt, copper, iron, zinc, ultra micro elements - bromine, chromium, silicon, nickel, selenium as well as macro elements - calcium, phosphorus, magnesium, sulfur;

2. structurally specific crude fiber (dietary fiber), which is not digested either by the bird's body or by microorganisms living in its gastrointestinal tract;

3. specific carbohydrates (poly- and oligosaccharides) providing metabolic modification.

The effectiveness of the Algodarfeed feed additive was proven by numerous tests and various control trials on meat, egg and breeding poultry.

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Indicator	Unit of measure	Method	Value
Physical and chemical indicators			
Mass fraction of humidity	%	GOST P 54951 - 2012	6,2
Mass fraction of crude protein	%	GOST 13496.4-93 п.2	6,21± 0,22
Mass fraction of crude fat	%	GOST 13496.15-2016	1,4± 0,44
Mass fraction of crude fiber	%	GOST 31675-2012 п.7	9,9±1,4
Mass fraction of crude ash	%	GOST 32933-2014	24,4
Calcium content	g/kg	GOST 26570- 95 п.2	1,39
Phosphorus content	g/kg	GOST 26657 - 97 п.4	0,03
Nutritional units in 1 kg	kcals	Computational method	2006
Metabolizable energy	MJ/kg	Computational method	8,74
Nitrogen-free extract (NFE)	%	Computational method	51,93
Mass fraction of sodium chloride	%	GOST 13496.1- 98	1,8
Carotene content	mg/kg	GOST 13496.17 - 95	16
Vitamin content :			
Vitamin A	mg/kg	M- 02 - 1006 - 08	2,38±0,71
Vitamin A	IU/кг	Computational method	6918±2064
Microelements			
Iron	mg/kg	GOST 26573.2- 2014	137,00±32,33
Copper	mg/kg	МУ 08/47-224	2,55±0,84
Iodine	mg/kg	МУ 08/47-247	400±32
Cation content			
Potassium		M 04 - 65 - 2010	20,42±5,47
Sodium		M 04 - 65 - 2010	21,67± 4,33
Magnesium		M 04 - 65 - 2010	6,73±1,35

Anion content			
Chlorine		M 04 -73-2011	34,21± 5,47
Sulfate		M 04 -73-2011	58,11±9,30
Sulphates in terms of elementary medium		M 04 -73-2011	19,41
Amino acids content			
lysine	g/kg	M-02-902-142-07	3,58±0,47
Methionine	g/kg	M-02-902-142-07	1,53±0,18
Cystine	g/kg	M-02-902-142-07	0,53±0,07
Methionine + cystine	g/kg	Computational method	2,06±0,25
Threonine	g/kg	M-02-902-142-07	2,06±0,25
Tryptophan	g/kg	ГОСТ 13496.21-2015	0,34±0,03
Arginine	g/kg	M-02 -902 -142-07	4,19± 0,59
Valine	g/kg	M-02 -902 -142-07	4,56±0,55
Histidine	g/kg	M-02 -902 -142-07	2,69±0,32
Glycine	g/kg	M-02 -902 -142-07	3,39±0,41
Isoleucine	g/kg	M-02 -902 -142-07	3,30±0,40
Leucine	g/kg	M-02 -902 -142-07	4,52±0,54
Phenylalanine	g/kg	M-02 -902 -142-07	3,73± 0,45
Tyrosine	g/kg	M-02 -902 -142-07	2,15±0,26
Phenylalanine + Tyrosine	g/kg	Computational method	5,88±0,71
Alanin	g/kg	M-02 -902 -142-07	4,27± 0,51
Aspartic acid	g/kg	M-02 -902 -142-07	16,81±2,19
Glutamic acid	g/kg	M-02 -902 -142-07	19,56±2,35
Serine	g/kg	M-02 -902 -142-07	3,42±0,41

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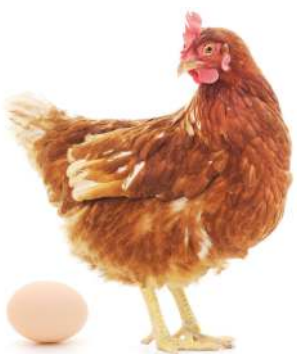
INCREASING POULTRY PRODUCTIVITY WITH THE ALGODARFEED FEED ADDITIVE

Broiler

-2% Feed conversion

+1,3% Weight gain



Laying hens

-2% Feed conversion

+5% Egg production

+2% Specific gravity of eggs

+5,4% Hatchability of the parent stock

Turkey

-1,7% Feed conversion

+3% Weight gain

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Improved digestibility of crude fat

+3%

Improved digestibility of crude protein

+5,5%

Increased content of carotenoids and fatty acids in eggs

Reduced emissions of harmful gases from poultry farms

-50%

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ALGODARFEED IS INDISPENSABLE FOR POULTRY FARMING

ALGODARFEED contains large quantities of nutrients.
Bromine reduces the risk of cannibalism (pecking) in poultry.
Chromium accelerates the growth of muscle tissue and internal organs.
Selenium improves immunity.
Calcium improves egg shell quality, accelerates growth of young birds and improves bone strength of adult birds which reduces the incidence of fractures, lameness and other musculoskeletal disorders.

When added to a premix for poultry, Algodarfeed considerably contributes to the microelement content and reduces the need for inorganic forms of microelements. Depending on the type of premix and dosage, just 0.05–0.12% of Algodarfeed in the premix covers 20% of zinc, cobalt, copper and manganese and 100% of potassium iodide input norm. Algodarfeed improves physical and mechanical properties of the premix: it eliminates its stratification and terminates chemical interactions of its constituent active components. It also increases the efficiency of the premix by 10–12% and controls and even reduces its cost.

Algodarfeed can be used to produce functional food products, e.g. iodine-enriched poultry meat and eggs. The effect of increased iodine in the egg is noticeable when 0.2–0.3% of Algodarfeed is introduced into the diet of egg-laying poultry. The recommended regime is 0.2–0.3% of Algodarfeed in the total premix mass in the first 35 days of growing and 0.5% in the last 7 days of keeping poultry.

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- Bioorganic forms of microelements in Algodarfeed are compounds of microelements with amino acids and polypeptides that are absolutely chemically inert. They do not interact with any nutrient and biologically active substances of compound feed during its preparation, storage and consumption by poultry. As a result, the input of chemical salts of microelements into the premix is reduced by 1/3, and the use of highly reactive iodide salts is excluded altogether. As a result of the eliminated chemical interactions of macro- and microelements in the premix, its effectiveness increases by 1.2 times. Algodarfeed acts as a safety net against uncontrolled interactions in premix and mixed feed, which increases the effect of each nutrient and biologically active substance in the feed to the maximum.

- Crude (dietary) fiber in Algodarfeed acts as a powerful prebiotic and multiplies the effect of probiotics, organic acids supplements, enzyme preparations by about 1.2-1.5 times. This is due to the fact that the dietary fiber is not digested either by the bird itself or by intestinal microorganisms. The fiber acts as a substrate for the biochemical reactions and increases the contact area between substrate and additive and thus enhances and accelerates their effect.
  In addition to that, the dietary fiber of the feed additive normalizes intestinal motility. This not only enhances the parietal digestion and absorption of nutrients, but also inhibits the development of pathogens such as Escherichia coli, Salmonella, Klebsiella, Clostridia and other pathogens. That is why adding the Algodarfeed feed additive to the poultry diet reduces the frequency and severity of colibacillosis, salmonellosis, coccidiosis and other dangerous intestinal infections and invasions in poultry.

- The specific carbohydrates of the feed additive include alginates, fucoidans, mannitol and others.
  Alginates have a strong thickening and water-binding properties, they also offer the immunostimulating effect.
  Fucoidans are a group of sulfated polysaccharides known in particular for their anti-inflammatory and immunostimulating properties.
  Mannitol is a polysaccharide with pronounced osmotic properties that promotes diuresis and enhances the excretion of urate salts from the kidneys and ureters.
  Consequently, due to its carbohydrates' properties, Algodarfeed can be used to improve the strength of mixed feed granules, to prevent inflammatory processes in the internal organs of birds, to stimulate their immune system, to prevent gout and urine acid diathesis.

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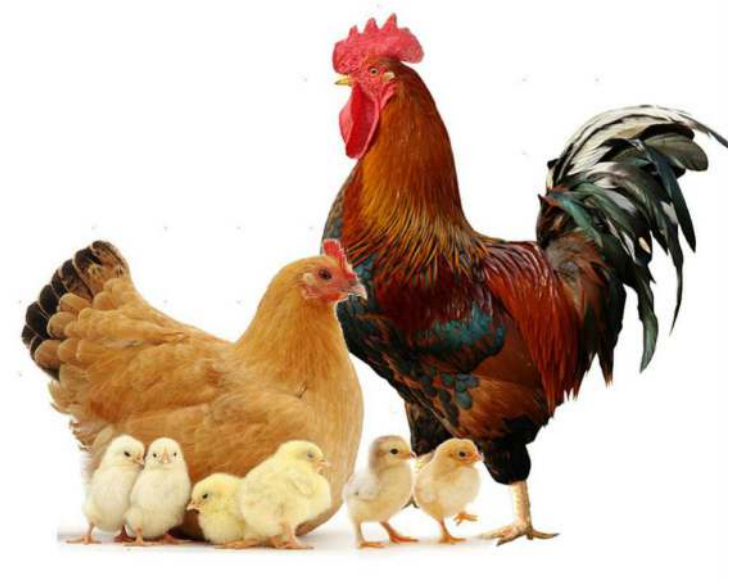
ECONOMIC EFFECT OF USING THE ALGODARFEED FEED ADDITIVE

Indicator	Standard diet	Standard diet + Algodarfeed
Poultry headcount	100	100
Number of eggs in 30 days	2242	2628
Total feed consumption, kg	346	346
Feed consumption per dozen of eggs, kg	1,543	1, 316
Feed cost per 1 kg, roubles.	19	19,8
Cost of feed consumed per dozen of eggs, roubles	29,32	26,05
Saved cost, roubles	-	3,27



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WE OFFER TWO TYPES OF ALGODARFEED

«Algodarfeed 1.2»

Production form: particles up to 2 mm

Mass fraction of crude protein 5,5%
Mass fraction of crude fiber 5,3%
Mass fraction of crude ash 19,6%

«Algodarfeed 1.4»

Production form: powder

Mass fraction of crude protein 5,4%
Mass fraction of crude fiber 5,5%
Mass fraction of crude ash 21,7%

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RECOMMENDED USE

- The optimal prophylactic dose of Algodarfeed is 0.05-0.1% of the total feed mass for all kinds poultry throughout the entire period of use.
- The input rate of the feed additive can be increased to 0.15-0.2% of total feed mass in case of risk of stress of any etiology (and even more so at the time of stress), whenever bird displays clinical signs of pecking, weak plumage, damage to the kidneys and reproductive organs and in case of weakening of egg shell. Afterwards, the feed additive input can be reduced to the prophylactic dose again.
- Algodarfeed is thermally stable and can be used in wet and dry poultry feed.
- Algodarfeed should be stored in a dry place at a temperature between 5°C and 25°C, without exposure to direct sunlight, and used within 18 months from the date of manufacture.

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Name		Net weight	Weight per pack	Price per kg	Storage conditions and shelf life
Algodarfeed 1.2		1 kg	25 kg	3,5 $	At a temperature between 5°C and 25°C, without exposure to direct sunlight. Shelf life: 18 months
Algodarfeed 1.4		1 kg	25 kg	7,5 $	At a temperature between 5°C and 25°C, without exposure to direct sunlight. Shelf life: 18 months

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WE LOOK FORWARD TO OUR COOPERATION

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