THE ORGANO-MINERAL FODDER ADDITIVE ON THE BASIS OF SECONDARY RAW MATERIAL

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On the basis of the researches carried out we developed the technological circuit of manufacture the organo-mineral fodder additives (OMFA), the essence of which is that on the basis of a waste products of the silk-reel factory suspension received, in which mineral components and fillers are dosed. Received damp weight is exposed to drying and granulation at 100-110°C.

Therefore research of ways of application of secondary raw material for manufacture of the complex organo-mineral fodder additives (OMFA), the study of properties and influence of these additives on animals has the large ecological and practical value.

For the balance strike of diets on phosphorus and sulfur without fluorine fodder phosphate and phosphogyps the waste form in the production of extractional phosphoric acid (EFA) were used. It was following chemical structure: (weights.%) CaO - 26,23; MgO-1,42; P₂O₅ common. –5,25; P₂O₅ citric – 0.01; P₂O₅ water-dissolved – 3,60; insoluble rest – 11,86; F – 0,31; SO₃ – 39,12. The composition of the phosphogyps, used for reception of the mineral fodder additive, contains up to 3,60 weight% water-soluble P₂O₅.

On the purpose of neutralization free EFA and the introduction of a nutritious element of nitrogen in the composition of the fodder additive have been carried out it’s ammoniation in gasholder.

Ammoniated phosphogyps has the following chemical composition (weights.%): CaO 24,57; MgO-1,38; P₂O₅ common. –4,84; P₂O₅ citric – 4,10; P₂O₅ water-dissolved – is not found out; insoluble rest – 11,67; NH₃ – 2,19.

Ratio calcium phosphate (III) and ammoniated phosphogyps has been varied in the limits appropriate to norm of consumption of phosphorus and calcium. For the balance strike of the fodder additive on microelements natrium chloride and calcium chloride were introduced.

As an organic component of the organo-mineral fodder additive the waste products formed at processing of cocoons silk-worm on a fibre were used.

The optimum chemical composition of the organo-mineral fodder additive is (weights.%): CaO 39,03; P₂O₅ common. –31,38; P₂O₅ citric – 3,60; NH₃ – 0,57; SO₃ – 10,35; Na₂O – 1,75; crude ashes – 3,6; crude fat –13,9; crude protein – 58,1; cellular tissue – 10,1; without nitrogen extractional of substances (WNES) – 6,2; water – 6,4.

The organo-mineral fodder additive improves mastering forages, increases profit weight and efficiency of agricultural animals, reduces them sick rate.