NEW PLANT - NEW OPPORTUNITIES!

Plant for the production of premixes
21-st of May 2013 an official launching of NOVACORE plant (Inbel LLC) which is producing premixes under the trademark PROVITAN took place.
NOVACORE plant —

is a result of the international project, that is a unique high-tech enterprise in CIS for producing high quality and effective supplement feeds: premixes and concentrated feed.

The managing company of the plant is Inbel LLC.
The main aim of NOVACORE plant is to provide effective feed additives that meet the highest European standards of the manufacturers of AVMA, feed stuff, vertically integrated companies, which will allow it to produce the most competitive products and strengthen its market position.
The capacity of NOVACORE plant

36 000 tones/year

allows to ensure maximal number of the manufactures of all mash with high-class premixes in Ukraine
The plant for premixes – Technological advantages
Why is premixer needed?

Portions mixers for feed plants.
To get a good homogeneity of the components in the portion mixer, is not allowed to put in the mixer components with the amount less than 0,1% of the usable mixer volume.

COUNCIL DIRECTIVE 95/69/EC
of 22 December 1995
laying down the conditions and arrangements for approving and registering certain establishments and intermediaries operating in the animal feed sector and amending Directives 70/524/EEC, 74/63/EEC, 79/373/EEC and 82/471/EEC
The premix plant is a pharmacy

This is a pharmacy for animals, which like the pharmacy for people mixes the vitamins, microelements, enzymes and other additives according to the doctor’s order!

!!! It’s important to avoid unwanted substances in the recipe (Viagra and sleeping aid) - CONTAMINATION
The selection of the equipment supplier

Each equipment supplier has strengths.
The task is to choose “the best from the best”.

La crème de la crème.
Above 20 suppliers of equipment
NOVACORE plant is a European project, design engineer, prime contractor
NOVACORE plant – the European project – the full conformity
Main technological characteristics of the plant

• Production capacity of 6-10 tons per hour
• 36 000 tones per year in 2 shifts
• Flexible manufacture from blends till AVMA
• Powerful automated management system of manufacturing
• Extensive system of aspiration
• High precision metering
• Low levels of contamination
Modern manufacturing laboratory

which ensures the qualitative analyses of the input raw materials and the finished products in compliance with the numerous parameters (heavy metals, vitamins, micro elements, organic and inorganic compounds etc.)
For your safety and high quality...

...large amounts are invested in the laboratory

Nirflex N-500

AES ICP Quantima

Anton Paar Microwave

Sykam HPLC
Inner and external control

• Standard operational procedures
• Standard test and Shuchard’s chart
• Participation at the ring-tests
• Daily control of equipment
Schedule of the quality control

The plant’s laboratory works according with the raw materials and the finished products quality control schedule, and also takes part at the audit of the suppliers.
NOVACORE plant equipped with auto acceptance site of bulk raw materials with taking out the metal magnetic impurities and undermining line
Acceptance of carriers and bulk raw materials

- Aspiration of the bulk raw components during the auto acceptance
- Hygiene of the raw materials acceptance
- Low level of dustiness of the finished products
- Explosion safety
Preparation of carrier

- Removal of foreign inclusions
- Cleaning the raw materials
- Consecutive grinding of the components
- Flexible grinding adjustment (sieves, grinding speed, force of aspiration)
NOVACORE plant equipped with

acceptance site of packed raw materials with the use of dock-shelters

ensuring the qualitative acceptance in any weather conditions
Acceptance of the packed raw materials

• To produce the premixes of high quality for You, we have implemented the bar-coding system from the raw materials acceptance till its processing into the finished products
NOVACORE plant equipped with Weighing system of macro and middle dosing
NOVACORE plant equipped with System of precise micro dosing
Precision of components dosing

- Each bin has a precision weighing system
- The system of inverted plumb line
- Stainless steel
- Shut off valves
- Auto locking slider on the bin’s cover
Unique equipment allows to make highly precise and quick metering, that provides the needed balance of components in the mixture.
How to lift up the dosed raw materials on top?

Quick-Lift System

• Contamination similar to zero
• Quick rise to the top of the plant
• Stainless steel
• The workload ranges from a few kilograms up to 2 tons
NOVACORE plant equipped with

vertical transportation system of components

with the use of Quick-Lift, that excludes the risk of unwanted mixing (contamination)
Mixer

- Specially worked out for the premixes producing
- Stainless steel
- No “dead” zones
- Optimal mixing during 5 minutes
NOVACORE plant equipped with a system of weighing control in order to avoid getting of coarse particles into the finished products.
Sampler unit under the mixer for the quality control of the finished products
NOVACORE plant equipped with robotic packing line of the finished goods which ensures high accuracy packaging of finished products, high capacity, minimizes risks (dust, allergy) and provides the working conditions according to OHSAS 18001.
NOVACORE plant equipped with an extensive aspiration system which ensures low risk of explosion (ATEX) and, consequently, higher security for employees (according to the requirements of OHSAS 18001), who work with concentrated substances.
High level of production hygiene

- Point aspiration excludes contamination
- Centralized aspiration
- Separate collection and disposal of aspirational wastes according to the highest international standards
- Central suction cleaner
Specialized storage of raw materials and finished products

- Storage in warehouse / «Holding area»
- Dock-shelters for unloading in any weather
- Dock-lever for unloading of any kind of transport
- Climate control system for raw material and finished products
Our Management System
NOVACORE plant equipped with specialized and automated system for process control which fully allows to track the movement of raw materials from the date of its order from the supplier till the shipping date of the finished product to consumer (Tracking & Tracing system according to the standards of FAMI-QS and GMP+).
Automation system

- Planning of production ensures the highest quality
- Thorough cleaning between the production stages
- 100% integration between the calculation of recipes and production
- Implementation of European production practices
Certification of the plant NOVACORE

The plant implemented the Integrated Management System, which is certified according to international standards:

Quality Management ISO 9001

Environment Management ISO 14001

Management of Occupational Health and Safety OHSAS 18001

GMP+/FAMI-QS
The equipment of the plant NOVACORE and implemented technologies allow to provide:

The high quality of raw materials
- strong laboratory inspection
- strict requirements to storage

High quality of products
- absence of mistakes during the products manufacture
- thorough adherence to the receipts
- compliance with the highest precision of dosing, high degree of homogeneity of the mixture, compatibility and stability of the components
- absence of contamination
- minimization of the "human factor“ impact

High level of manufacture safety
- for the finished products
- for the plant employees
- for environment

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Premixes according to the individual recipes

The plant produces premixes according to the individual recipes of customers.

It means that the customers can quickly purchase quality premixes with the properties and rate of input according to their specifications.
Premixes PROVITAN is a standard line in 5 quality-price segments

Structure of premixes PROVITAN by content components

- **Provitan Standard (PVT Std)**
  - Vitamins (base level)
  - Microelements (base level)
  - Antioxidant

- **Provitan Professional (PVT Prf)**
  - Vitamins (optimal level)
  - Microelements (optimal level)
  - Antioxidant

- **Provitan Professional Plus (PVT Prf +)**
  - Vitamins
  - Microelements
  - Antioxidant

- **Provitan Premium (PVT Prm)**
  - Vitamins
  - Microelements
  - Antioxidant

- **Provitan Premium Plus (PVT Prm +)**
  - Vitamins
  - Microelements
  - Antioxidant

- **NSP - ferments**
- **Phytase**
- **Flavour (for pigs)**

- **Chelates microelements**

- **Organic selenium**

- **Phytase**
- **Flavour (for pigs)**
- **Chelates microelements**
- **Organic selenium**
- **Natural growth stimulator**
There are leading farmers and feed producers in Ukraine among our customers
Along with the quality and safety of products NOVACORE plant will offer to customers

**Flexibility and high speed of orders fulfillment**

- High flexibility by producing of premixes and concentrates according to the individual receipts of clients
- Optimal logistics. Short term of order fulfillment
- Preservation of the components stability in premixes during the whole period of shelf life
- Operative rotation of the necessary components in the receipts

**Strictly fulfillment of obligations**

- The priority for the NOVACORE plant is the help to the clients by quick settlement of their manufacturing questions
- The fulfillment of the obligations in appropriate time is basis of our reputation and successful business of the client
- The team of NOVACORE plant is aiming to work in the strictly defined time frames to support the confidents of clients

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Management Structure of NOVACORE plant
NOVACORE has a high motivated professional team
We are open for collaboration!

Welcome!

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