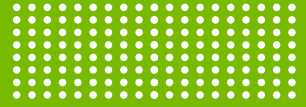




PRODUCT CATALOGUE

Agro-industrial
production

WE CREATE CONDITIONS FOR GROWTH



Group of Companies “Titan”

The Group of Companies “Titan” is the largest Siberian company, one of the key investors of Omsk region. It was founded in 1989 by Mikhail Sutyaginsky.

It includes about 20 enterprises.

ENTERPRISES OF THE PETROCHEMICAL COMPLEX

- **PJSC “Omsky kauchuk”** (production of synthetic rubbers, organic synthesis products, high-octane fuel components and other products of hydrocarbon raw material refining);
- **“Poliom”, Ltd** is the Joint-Venture of the GC “Titan”, SIBUR and “Gazprom Neft” (polypropylene production);
- **Novocherkassk Lubricant Production Plant Co., Ltd** (production of plastic lubricants and oils).

ENTERPRISES OF THE AGRO-INDUSTRIAL COMPLEX

- **“Titan-Agro” Ltd** (agro-industrial complex investment project implementation), including three structural subdivisions: pig-breeding complex “Petrovsky”, feed mill “Pushkinsky”, meat processing plant “Pushkinsky”.

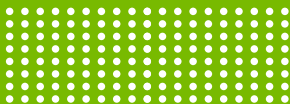
ENTERPRISES AND DIVISIONS OF THE INFRASTRUCTURE

- **Thermal power station;**
- **Investkhimprom Co., Ltd** (motor road cargo transportation);
- **“Titan-Inter-Trade”, Ltd** (export sales of petrochemical products).

The range of products and rendered services includes **about 200 items.**

The products of the Group of Companies “Titan” are in demand by consumers and occupy significant shares in the total Russian consumption:

- more than 30% of the Russian market of SKMS rubbers;
- about 30% of the Russian MTBE market;
- about 20% of the Russian polypropylene market.



The products comply with **international quality standards**.

The main production site of the company is located on the territory of Omsk region; affiliated and dependent organizations are represented in Russia (Moscow, Saint-Petersburg, Republic of Bashkortostan, Rostov region etc.) and CIS countries. The number of employees of the Group of Companies is about **5000 people**.

The integrated management system has been introduced at the enterprises of the GC "Titan" as well as at "Poliom", Ltd (Joint-Venture of the GC "Titan", SIBUR and "Gazprom Neft") that meets the requirements of the international standards ISO 9001, ISO 14001, OHSAS 18001. The formation of consolidated financial statements is carried out in accordance with the **International Financial Reporting Standards (IFRS)**.

Throughout the course of its history "Titan" supports children's and mass sports, veteran organizations, educational and cultural institutions and provides significant assistance to the region in the implementation of social programs.

Improving the material, technical and raw material base, guided by advanced technologies the GC "Titan" provides a high potential to satisfy the needs of partners. "We create conditions for growth" – this is the company's slogan.

INVESTMENT PROJECTS OF THE GC "TITAN"

On the territory of Omsk region at the initiative of the "GC "Titan" and with the support of the Government of Omsk region the projects are being implemented aimed at creating new high-technology industries, including on the terms of the public-private partnership with the asset attraction of the State Corporation "Bank for Development and Foreign Economic Affairs (Vnesheconombank)". Since 2010 more than 25 billion rubles have been attracted to the region's economy.

IMPLEMENTED PROJECTS (since 2010):

- normal butylene processing unit;
- polypropylene production plant;
- pig-breeding complex "Petrovsky";
- meat processing plant "Pushkinsky";
- feed mill "Pushkinsky".

PROJECTS AT STAGE OF IMPLEMENTATION:

- technical re-equipment of phenol-acetone production with the transfer to zeolitic alkylation of cumene and isopropyl alcohol (IPA) production;
- increase of the MTBE production capacity to 330 thousand tons per year;
- production of epoxy resins;
- creation of the complex for the production of PET pellets and BOPET films;
- technical re-equipment of the ethylene production unit (EP-25);
- construction of combined cycle gas turbine unit (PGU-120);
- extension of feedstock and commodity tank farms;
- transport and logistics network upgrading;
- production of specialty chemicals.

Contacts

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We create
conditions
for growth



“Titan-Agro” Ltd

COMPANY PROFILE

The company was formed in 2006 for the implementation of investment activity within the framework of the state program of the agriculture development. The company forms a part of the Agricultural and Biotechnological Industrial Cluster (Omsk biocluster), included in the register of industrial clusters of the Ministry of Industry and Trade of the Russian Federation. The company includes three separate subdivisions.

Pig-breeding complex “Petrovsky”

- **Capacity:**

- rated: 100 thousand pigs per year;
- achieved: 120 thousand pigs per year.

- **Breeding stock:** Hermitage Genetics.

- **Equipment:** Big Dutchman.

Feed mill “Pushkinsky”

- **Capacity:** about 125 thousand tons per year.

- **Equipment:** Bühler.

First stage of the meat processing plant “Pushkinsky”

(industrial slaughterhouse)

- **Capacity:** 11.5 thousand tons per year.

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MIXED FEED PRODUCTS

Complete feeds for cattle, pigs, other farm animals and poultry represent a homogeneous mixture of different food means purified and ground to a required size, prepared according to the formula taking into account scientifically justified introduction standards and fully ensuring the need for nutritious, mineral and biologically active substances.

At the customers' request the feed can be produced in pellets or in the form of crushed pellets with optimum particle sizes for each species and class of farm animals and poultry, that reduces the feed conversion.

The possibilities of process lines ensure the development of various formulas, including starter and pre-starter feeds. Mixed feed is sold in bags of 10, 50 kg or in loose form.

Poultry feed is a laureate of the federal contest "100 best goods of Russia".

FORMULAS FOR BROILERS

GOST R 51851-2001. Feeds for poultry

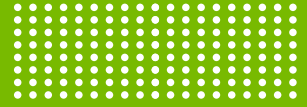
Name			
PK 5-1 – broilers from 1 to 3 weeks			
PK 5-2 – broilers from 4 to 5 weeks			
PK 6 – broilers from 6-7 weeks and older			
Indicators	PK 5-1	PK 5-2	PK 6
Metabolizable energy (ME), kcal/100 g.	310	315	320
Crude protein, %	23	21	20
Crude fiber, %	3.5	3.65	3.7
Lysine, %	1.36	1.25	1.17
Methionine + cystine, %	0.98	0.9	0.85
Calcium, %	1	0,9	0.9
Phosphorus, %	0.7	0.7	0.7
NaCl, %	0.2	0.2	0.2

FORMULAS FOR LAYING HENS AND YOUNG HENS OF LAYING BREED

GOST R 51851-2001. Feeds for poultry

Name						
PK 2 – chickens from 1 to 7 weeks						
PK 3 – young hens 8-14 weeks and from 15 weeks up to 2% egg-laying capacity						
PK 4 – young hens from 14 to 17 weeks						
PK 1-1 – laying hens up to 45 weeks						
PK 1-2 – laying hens 45 weeks and older						
PK 1-3 – brood hens						
Indicators	PK 2	PK 3	PK 4	PK 1-1	PK 1-2	PK 1-3
Metabolizable energy (ME), kcal/100 g.	290	270	260	270	260	270
Crude protein, %	19.5	15.5	13.5	16.5	15.5	16.5
Crude fiber, %	3.5	4.5	4.5	4	4.5	4
Lysine, %	1	0.8	0.7	0.75	0.7	0.75
Methionine + cystine, %	0.75	0.6	0.53	0.6	0.57	0.6
Calcium, %	1	1	1.1	3.6	3.8	3.8
Phosphorus, %	0.79	0.6	0.6	0.7	0.6	0.6
NaCl, %	0.2	0.2	0.2	0.2	0.2	0.2

*Minimum nutritional values are indicated.



COMPLETE MIXED FEED FOR PIGS

GOST R 52255-2004. Feeds for pigs

Name

SPK-1 – empty and pregnant sows
 SPK-2 – milking sows and breeding boars
 SPK-3 – young pigs from 10 to 42 days
 SPK-4 – young pigs from 43 to 60 days

SPK-5 – young pigs from 61 to 120 days
 SPK-6 – replacement young pigs from 4 to 8 months
 SPK-7 – fattening, 1st period
 SPK-8 – fattening, 2nd period

Indicators	SPK-1	SPK-2	SPK-3	SPK-4	SPK-5	SPK-6	SPK-7	SPK-8
Metabolizable energy (ME), mJ/kg	11.3	11.3	14.3	12.1	12.1	10.5	11.6	12.2
Crude protein, %	15	15.9	19.9	17.2	15.1	15	14.5	13
Crude fiber, %	6.4	5.5	2.9	5.4	4.5	5	5.6	5.5
Lysine, %	0.65	0.73	1.1	0.84	0.73	0.69	0.66	0.55
Methionine + cystine, %	0.42	0.44	0.7	0.54	0.47	0.46	0.45	0.4
Calcium, %	0.8	0.6	1	0.9	0.9	0.7	0.7	0.6
Phosphorus, %	0.8	0.6	0.9	0.9	0.8	0.5	0.7	0.6
NaCl, %	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

MIXED FEED – CONCENTRATES FOR PIGS

GOST R 52255-2004. Feeds for pigs

Name

SKK-50 – preweaning pigs up to 2 months
 SKK-51 – nursery pigs from 2 to 4 months
 SKK-52 – replacement young pigs from 4 to 8 months
 SKK-53 – empty sows and sows in the first 2/3 of pregnancy
 SKK-54 – sows in the last 1/3 of pregnancy and milking sows

SKK-55 – meat fattening of pigs
 SKK-56 – bacon fattening of pigs
 SKK-57 – breeding boar
 SKK-58 – fattening of pigs up to fat condition

Indicators	SKK-50	SKK-51	SKK-52	SKK-53	SKK-54	SKK-55	SKK-56	SKK-57	SKK-58
Metabolizable energy (ME), mJ/kg	12.7	12.4	11.1	10	12.2	11.1	11.6	12.2	10
Crude protein, %	20	17.5	16	14.5	18	15.5	16	17	14
Crude fiber, %	3	4.5	5.5	6.4	5.5	6.5	5.5	5.5	7
Lysine, %	1	0.8	0.67	0.6	0.77	0.65	0.69	0.81	0.6
Methionine + cystine, %	0.65	0.52	0.41	0.36	0.46	0.4	0.42	0.54	0.36
Calcium, %	0.8	0.8	0.6	0.8	0.8	0.8	0.8	0.7	0.8
Phosphorus, %	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6
NaCl, %	0.4	0.4	0.6	0.6	0.4	0.6	0.6	0.5	0.6

*Minimum nutritional values are indicated.



MIXED FEED – CONCENTRATES FOR CATTLE

GOST R 52254-2004. Feeds for cattle

Within non-grazing period

KK-60 – milking cows and heifers
KK-61 – highly productive cows
KK-62 – calves up to 4 months
KK-63 – young cattle from 4 to 12 months

KK-64 – young cattle from 12 to 18 months
KK-65 – cattle fattening
KK-66 – breeding bulls

Indicators	KK-60	KK-61	KK-62	KK-63	KK-64	KK-65	KK-66
Metabolizable energy (ME), mJ/kg	9.5	11	11	9.3	9.4	9.6	10
Feed units, in 100 kg	95	95	94	95	90	90	100
Crude protein, %	16	20	20	17	16	15	18
Crude fiber, %	7	6	5	7.5	9	12	5
Calcium, %	0.5	0.6	0.7	0.6	0.6	0.5	0.65
Phosphorus, %	0.7	0.85	0.75	0.8	0.8	0.7	0.85
NaCl, %	1	1	0.4	1	1	1	1

MIXED FEED – CONCENTRATES FOR CATTLE

GOST R 52254-2004. Feeds for cattle

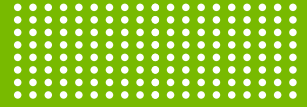
Within grazing season

KK-60-1 – milking cows and heifers
KK-61-1 – highly productive cows
KK-62 – calves up to 4 months
KK-63-1 – young cattle from 4 to 12 months

KK-64-1 – young cattle from 12 to 18 months
KK-65-1 – cattle fattening
KK-66-1 – breeding bulls

Indicators	KK-60-1	KK-61-1	KK-62	KK-63-1	KK-64-1	KK-65-1	KK-66-1
Metabolizable energy (ME), mJ/kg	9.7	10	11	9.3	9.5	9.5	10
Feed units, in 100 kg	95	95	94	90	90	90	100
Crude protein, %	12.5	13	20	13	12	11	15
Crude fiber, %	5	6	5	7.5	9	11	5
Calcium, %	0.6	0.65	0.7	0.6	0.6	0.5	0.65
Phosphorus, %	0.8	0.85	0.75	0.7	0.6	0.7	0.85
NaCl, %	1	1	0.4	1	1	1	1

*Minimum nutritional values are indicated.



MIXED FEED – CONCENTRATES FOR NUTRIAS AND RABBITS

GOST 32897-2014

Name

PZK-90 – for all-age nutrias and young rabbits

Indicators	PZK-90
Digestible energy (DE), mJ/kg	9.5
Feed units, in 100 kg	109
Crude protein, %	16.32
Crude fiber, %	4.9
Lysine, %	0.68
Methionine + cystine, %	0.45
Calcium, %	1.37
Phosphorus, %	1.11
NaCl, %	0.68

MIXED FEED – CONCENTRATES FOR HORSES

GOST R 54492-2011

Name

LK-71-1 – for trained and sport horses

LK-75 – for breeding mares

LK-75-1 – for milk mares

Indicators	LK-71-1	LK-75	LK-75-1
Digestible energy (DE), mJ/kg	13.5	13.5	13.5
Feed units, in 100 kg	98	96	102
Crude protein, %	14	14.08	12.5
Crude fiber, %	8.08	11.18	8.03
Lysine, %	0.58	0.52	0.52
Methionine + cystine, %	0.44	0.47	0.37
Calcium, %	1	0.86	0.48
Phosphorus, %	0.6	0.7	0.46
NaCl, %	0.11	0.14	0.16

*Minimum nutritional values are indicated.



COMMODITY PIG

Commodity hybrid with high growth energy and good meat qualities.

MEAT (PORK)

GOST 31476-2012

Product specifications

- There are the following pig breeds at the pig-breeding complex "Petrovsky": Large White, Landrace, Duroc, Hygro Pietrain and Hylean Maxgro. These breeds are characterized by bacon productivity trend, which determines the meat yield quality.
- Slaughter yield on average is more than 72% of live weight. The average weight of a slaughter pig is 105 kg.
- Pork meat is characterized by a high water-binding capacity (pH level 5.7-5.9, NOR category), semi-carcass fat cover is minimum. The entire range of products is in conformity with the requirements of the current regulatory technical documentation.
- By-products are separated from carcasses, pre-packed by types, processed and sent to packaging. In the separate subdivision "Meat-processing plant "Pushkinsky" the packaging of by-products is performed into blocks, after that they are delivered for freezing in specialized refrigerating chambers.

Storage

Chilled pork is stored in a suspended condition in chambers with a moderate air movement (0.2-0.3 m/s) with a relative humidity of 85-90% and temperature from 0 to -2°C. Meat cooling time – 24 hours. Shelf life of the chilled meat is maximum 12 days.

The frozen meat is stored in stacks at a temperature of -18°C and relative air humidity of 95% during 6 months.

PROCESSED PORK BY-PRODUCTS

GOST 32244-2013

Storage

At a temperature from 0 to -1°C and relative air humidity 85-90% – maximum during 2 days; at a temperature of -18°C – maximum 30 days.

Packing

Packing is made depending on the type of product and customer preferences:

- individual packing in stretch film;
- multiple packing in polyethylene bags.

SEMI-FINISHED LARGE-SIZED PORK PRODUCTS

Technical Specifications (TU) 9214-176-01597945-12

Storage

Conditions and period of storage – at a temperature from 0 to 6°C – maximum 48 hours; at a temperature of -18°C – maximum 6 months.

Packing

Packing is made depending on the type of product and customer preferences:

- individual packing in stretch film;
 - multiple packing in polyethylene bags.
- All products are packed in corrugated boxes



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