



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 PETROCHEMICAL COMPLEX

- ▣ **AO "Omsky kauchuk"** ((production of synthetic rubbers, organic synthesis products, high-octane fuel components and other products of hydrocarbon raw material refining);
- ▣ **Titan-SM, Limited company** (production of plastic lubricants and oils).

ENTERPRISES OF AGRO-INDUSTRIAL COMPLEX

- ▣ **"Titan-Agro" Ltd** (implementation of agro-industrial complex investment projects), including three structural subdivisions: Pig-breeding Complex "Petrovsky", Feed Mill "Pushkinsky", Meat Processing Plant "Pushkinsky".

ENTERPRISES AND DIVISIONS OF INFRASTRUCTURE

- ▣ **Thermal power station;**
- ▣ **Investkhimprom Co., Ltd** (truck haulage);
- ▣ **"Titan-Inter-Trade", Ltd** (export sales of petrochemical products);
- ▣ **"Bash-Titan", LLC** (official representation of the GC Titan in the Republic of Bashkortostan).

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 substantial shares in the total Russian consumption:

- ▣ more than one-third of the Russian SKMS rubber market;
- ▣ about a quarter of the Russian MTBE market;
- ▣ 15% 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 and Pskov regions etc.) and the CIS countries. The total number of employees in the Group is about **4500 people**.

The integrated management system has been introduced at the enterprises of the GC Titan as well as at “Polim”, Ltd meeting the requirements of the international standards ISO 9001, ISO 14001, OHSAS 18001. Consolidated financial statements are prepared in accordance with **International Financial Reporting Standards (IFRS)**.

Throughout the course of its history Titan has been supporting children’s and mass sport, veteran organizations, educational and cultural institutions and providing significant assistance to the region in the implementation of social programs.

Improving the material, technical and raw material base, focusing on 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 supported by the Government of Omsk region the projects are being implemented aimed at new high-technology industries development, including via public and private partnership. Since 2010 more than 30 billion rubles have been invested in the economy of the region.

The Group of Companies “Titan” established more than 30 enterprises, implemented over 10 large investment projects, including greenfield projects in petrochemical, power engineering and agricultural industries.

IN-PROGRESS PROJECTS:

- ▣ technical re-equipment of phenol-acetone production with transfer to zeolitic alkylation of isopropylbenzene (IPB) and isopropyl alcohol (IPA) production;
- ▣ construction of a complex for the production of PET pellets and BOPET films;
- ▣ low-tonnage chemistry production;
- ▣ increasing of MTBE production capacity up to 330 thousand tons per year;
- ▣ technical re-equipment of the ethylene production unit (EP-25);
- ▣ epoxy resins production;
- ▣ construction of a combined cycle gas turbine unit (CCGT-120);
- ▣ extension of feedstock and commodity tank farms;
- ▣ transport and logistics network upgrading

Contacts

AO GC TITAN

644035, the city of Omsk, 22, Gubkin Ave.,
tel.: +7 (3812) 29-95-55, 35-69-31
e-mail: info@titan-omsk.ru
www.titan-omsk.ru

MARKETING DEPARTMENT

tel.: +7 (3812) 29-95-55 (доб. 55-50)
e-mail: marketing@titan-omsk.ru

“TITAN-AGRO” LTD COMPOUND FEED SALES

tel.: +7 (3812) 21-79-40
e-mail: sale@agro.titan-agro.ru

PORK SALES

tel.: +7 (3812) 21-79-46
e-mail: trade@agro.titan-agro.ru

MATERIAL SUPPLY DIVISION

tel.: +7 (3812) 21-79-49
e-mail: snab@agro.titan-agro.ru

www.titanagro.ru

We create
conditions
for growth



“Titan-Agro” Ltd ®

COMPANY PROFILE

The company was founded in 2006 to carry out investment activities within the state program of the agriculture development. The company is a part of 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: 50 thousand pigs of simultaneous housing
- achieved: 60 thousand pigs of simultaneous housing

Breeding stock: Hermitage Genetics

Equipment: Big Dutchman (Germany)

Feed mill “Pushkinsky”

Capacity: up to 125 thousand tons per year

Equipment: Bühler (Switzerland)

Meat processing plant “Pushkinsky”, Phase I (industrial slaughterhouse)

Capacity: 11.5 thousand tons per year

Equipment: Banss (Germany), Shaller (Austria), Stork (Holland)

Address: 644035, Omsk region, Omsk district, Pushkino village, 40/1 Krasnoyarsky trakt,

Tel.: +7 (3812) 21-79-49

e-mail: info@agro.titan-agro.ru

www.titan-agro.ru



IMPACTFUL COMPOUND FEED

Compound feed for cattle, pigs, other farm animals and poultry is a homogeneous mixture of different feedstuffs, purified and crushed to the required size, formulated according to a recipe taking into account scientifically based input rates and fully satisfying the need for nutrient, mineral and biologically active substances.

THE RANGE OF MIXED ANIMAL FEED PRODUCED BY THE FEED MILL "PUSHKINSKY" INCLUDES DOZENS OF PRODUCTS:

- compound feed for laying hens, broilers and growing egg breeds;
- compound feed for wild game (pheasants, quails);
- complete feed for turkeys;
- complete feed for geese, ducks;
- complete feed and feed concentrates for pigs;
- feed concentrates for cattle;
- feed concentrates for horses;
- feed concentrates for nutrias and rabbits.

The Feed Mill "Pushkinsky" uses **high-tech equipment** from Bühler (Switzerland) to produce compound feed, providing accurate dosing, high-quality mixing, high feed homogeneity and rapid transition from one recipe to another. The formulation is developed taking into account animal physiology, housing conditions and a number of other factors.

The plant's automated technological process control system makes it possible to give production assignments for feed output according to recipes, monitors the progress of operations, displays it in the visualization system, as well as collects statistics on production parameters and signalling messages.

At client's request, feed can be produced in bulk, in the form of crumbles or pellets with optimal particle sizes for each species, age and sex group of farm animals and poultry, which reduces feed conversion.

The capabilities of technological lines provide **various formulations** production, including starter and pre-starter feed.

Compound feed is supplied in **10, 35, and 40 kg bags**.

The finished product is shipped to customers at a special site, which eliminates product loss. Compound feed can be shipped in special feed trailers as well as in tipper trucks with a covering material on the body.

The feed mill "Pushkinsky" has introduced and implements a **techno-chemical control system**, which includes:

- input control of all incoming feedstock;
- control over placement, storage and release of feedstock to production;
- production process control;
- quality control of finished products.

All manufacturing parameters are monitored during the production process to ensure that products are in line with recipes, beginning with feeding control into production and ending with placing the feed in the finished product warehouse. The final products are also tested by the production technology laboratory to ensure that they meet the requirements of regulatory documentation for all the necessary parameters.

Production and technological laboratory structure:

- sampling and testing laboratory;
- chemical department;
- toxicological and bacteriological departments;
- production laboratory

More than 100 units of modern analytical and measuring equipment manufactured by well-known companies, such as Agilent, Analitik Yena, FOSS, Gerhard and others are installed in the laboratory. **The advanced laboratory equipment** makes it possible to produce feed of exceptionally high quality, which is confirmed by both regulatory authorities and consumers.



In 2018, compound cattle feed produced by the Feed Mill "Pushkinsky" was awarded with a diploma at the federal stage of "100 Best Goods of Russia" competition in the "Food Products" category, and in 2016, compound poultry feed attained the laureate status.



COMPOUND BROILER FEED

GOST R 51851-2001. Compound poultry feed

GOST 18221-99. Complete poultry feed

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

FEED FOR LAYING HENS AND YOUNG HENS OF LAYING BREED

GOST R 51851-2001. Compound poultry feed

GOST 18221-99. Complete poultry feed

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

COMPOUND QUAIL FEED

GOST 28460-2014. COMPOUND FEED FOR WILD GAME

Name

DK-50 - pheasants, quails from 1 to 4 weeks of age

DK-51 - pheasants, quails from 5 to 6 weeks of age

DK-52 - quails from 7 weeks and older

Indicators	PK-50	PK-51	PK-52
Metabolizable energy (ME), kcal/100 g.	300	275	290
Crude protein, %	28	17	21
Crude fiber, %	3	5	5
Lysine, %	1,41	0,86	1,05
Methionine + cystine, %	1,02	0,62	0,74
Calcium, %	1	1,2	2,8
Phosphorus, %	0,8	0,8	0,8
Na, %	0,5	0,5	0,5

COMPLETE TURKEY FEED

GOST R 51851-2001. Compound poultry feed

GOST 18221-99. Complete poultry feed

Name

PK-11 - young turkeys from 1 to 8 weeks of age

PK-12 - young turkeys from 9 to 17 weeks of age

PK-13 - young turkeys from 18 to 30 weeks of age

PK-10 - adult turkeys

Indicators	PK-11	PK-12	PK-13	PK-10
Metabolizable energy (ME), kcal/100 g.	285	290	270	280
Crude protein, %	26,5	21	13,5	15
Crude fiber, %	5	5	7	6
Lysine, %	1,48	1,2	0,7	0,7
Methionine + cystine, %	0,94	0,78	0,5	0,55
Calcium, %	1,6	1,7	1,7	2,5
Phosphorus, %	1	0,9	0,7	0,6
Na, %	0,3	0,25	0,22	0,22



COMPLETE DUCK FEED

GOST R 51851-2001. Compound poultry feed

GOST 18221-99. Complete poultry feed

Name

- PK-21 - young ducks from 1 to 3 weeks
- PK-22 - young ducks from 4 to 8 weeks
- PK-23 - rearing young ducks from 9 to 26 weeks
- PK-20 - adult laying ducks

Indicators	PK-21	PK-22	PK-23	PK-20
Metabolizable energy (ME), kcal/100 g.	280	295	260	265
Crude protein, %	17,5	15,5	13,5	15,5
Crude fiber, %, maximum	6	6	10	7
Lysine, %	1	0,8	0,7	0,7
Methionine + cystine, %	0,77	0,68	0,59	0,57
Calcium, %	1,1	1,1	1,1	2,5
Phosphorus, %	0,7	0,65	0,6	0,6
Na, %	0,22	0,22	0,22	0,22

COMPLETE FEED FOR GEESE

GOST R 51851-2001. Compound poultry feed

GOST 18221-99 Complete poultry feed

Name

- PK-31 - young geese from 1 to 3 weeks
- PK-32 - young geese from 4 to 8 weeks
- PK-33 - rearing young geese from 9 to 26 weeks
- PK-30 - adult geese

Indicators	PK-31	PK-32	PK-33	PK-30
Metabolizable energy (ME), kcal/100 g.	280	275	260	260
Crude protein, %	19,5	17,5	14	14
Crude fiber, %, maximum	5,5	6	10	10
Lysine, %	1	0,9	0,65	0,65
Methionine + cystine, %	0,78	0,7	0,55	0,55
Calcium, %	1,1	1,1	1,2	1,2
Phosphorus, %	0,7	0,7	0,6	0,6
Na, %	0,22	0,22	0,22	0,22

COMPLETE FEED FOR PIGS

GOST R 52255-2004. Feed for pigs

Name

- SPK-1 - empty and pregnant sows
- SPK-5 - young pigs from 61 to 120 days
- SPK-2 - milking sows and breeding boars
- SPK-6 - replacement young pigs from 4 to 8 months
- SPK-3 - young pigs from 10 to 42 days
- SPK-7 - fattening, 1st period
- SPK-4 - young pigs from 43 to 60 days
- 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

FEED CONCENTRATES FOR PIGS

GOST R 52255-2004. Feed for pigs

Name

- SKK-50 - pre-nursery pigs up to 2 months
- SKK-55 - meat fattening of pigs
- SKK-51 - nursery pigs from 2 to 4 months
- SKK-56 - bacon fattening of pigs
- SKK-52 - replacement young pigs from 4 to 8 months
- SKK-57 - breeding boar
- SKK-53 - empty sows and sows in the first 2/3 of pregnancy
- SKK-58 - fattening of pigs up to fat condition
- SKK-54 - sows in the last 1/3 of pregnancy and milking sows

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



FEED CONCENTRATES FOR CATTLE

GOST R 52254-2004. Cattle feed

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

FEED CONCENTRATES FOR CATTLE

GOST R 52254-2004. Cattle feed

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

FEED CONCENTRATES FOR NUTRIAS AND RABBITS

GOST 32897-2014. Compound feed for furbearing animals, rabbits and nutrias

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

FEED CONCENTRATES FOR HORSES

GOST R 54492-2011. Horse feed

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



MEAT (PORK)

GOST 31476-2012. Slaughter pigs. Pork carcasses and semi-carcasses

Product specifications

There are following pig breeds at the pig-breeding complex "Petrovsky": Large White, Landrace, Duroc and Hylean Maxgro. These breeds are characterized by bacon productivity trend, which determines meat yield quality. The average slaughter yield is over 72% of live weight. The average weight of a slaughter pig is 105kg.

Pork meat is characterized by a high water-binding power (pH level 5.7-5.9, NOR category), the fat depth across the carcass surface is minimal. The entire product range complies with the requirements of current regulatory technical documentation. The Pig-breeding Complex "Petrovsky" meets the criteria set out in Compartment IV (the highest degree of biological protection).

The pig breeding complex supplies slaughter animals to the Meat Processing Plant "Pushkinsky", a separate subdivision of "Titan Agro" Ltd. Pork is deboned, packed and shipped at this agro-industrial enterprise. A full production cycle and sales of pork on the company's own feed base ensure consistently high product quality.

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. Chilled meat term of storage is maximum 12 days.

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 product type and customer preferences:

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

The products are sold in corrugated packaging.

NATURAL PORK LARGE-SIZED SEMI-FINISHED PRODUCTS

Storage

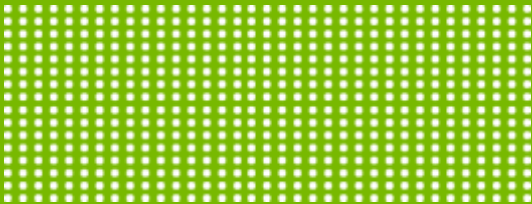
Storage conditions and periods - at 0-6 °C for 72 hours maximum; vacuum-packed - up to 18 days; at -18 °C for 6 months maximum.

Packing

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

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

The products are sold in corrugated packaging.



Titan-Agro ®

COMPOUND FEED SALES

tel.: +7 (3812) 21-79-40

e-mail: sale@agro.titan-agro.ru

PORK SALES

tel.: +7 (3812) 21-79-46

e-mail: trade@agro.titan-agro.ru

MATERIAL SUPPLY DIVISION

tel.: +7 (3812) 21-79-49

e-mail: snab@agro.titan-agro.ru

www.titan-agro.ru

