



РТК



РУССКАЯ[®]
ТОРФЯНАЯ
КОМПАНИЯ

Everything will grow up!

RUSSIAN PEAT COMPANY (RPC, LLC) IS A MODERN FAST DEVELOPING HOLDING IN THE FIELD OF AGRICULTURE PEAT EXTRACTION AND PROCESSING.

RPC develops peat fields, extracts peat and processes it at its own production facilities using the most modern high-performance equipment of the world's industry leaders, as well as develops innovative peat products for all types of agricultures. RPC manufactures ready-made peat products in all existing types and volumes of packaging.

RPC'S COMPETENCIES

■ RPC'S COMPETENCIES

■ RUSSIAN PEAT COMPANY

- Why the peat? Why choose RPC?
- Fractions. Size does matter!
- Additives. What is it inside?
- Production. How do we produce the products which will help you to grow?
- Package. Packaging of our products doesn't substitute the contents, but preserves it.
- Logistics. Flexible global delivery solutions.
- Formulae
 - How to choose the right RPC substrate? The Formulae Guide.
 - Basic formulae.
 - PRO formulae.
 - PROExpert formulae.
- Casing soil for professional mushroom cultivation.
- Peat substrates of Hobby segment.

RPC PROFESSIONAL PEAT SUBSTRATES

THE PEAT GUIDE

Everything will grow up!

WHY THE PEAT? WHY CHOOSE RPC?

CHEMICAL PROPERTIES:

- + Perfect pH
- + Optimal content of nutrients
- + High accessibility of micronutrients
- + 100% organic product

BIOLOGICAL PROPERTIES:

- + Unique ecological peat fields, sphagnum-based
- + Weeds-free
- + Free of pathogenic flora

PHYSICAL PROPERTIES

- + 100% structural stability
- + Optimal moisture and air permeability ratio
- + High moisture capacity
- + High fluidity (a possibility to be used at automated lines)

ECONOMICAL PROPERTIES:

- + No expenditures for disposal are required
- + Affordability and guarantee of high yield
- + A possibility to grow organic products with higher margin

Professional substrates from the professional manufacturer

WHAT ARE COMPONENTS OF RPC'S PROFESSIONALISM?

- + We extract nothing but peat, using only the best European equipment.
- + In cooperation with the leading Russian agricultural higher educational institutions, we develop formulae adapted for various climatic conditions
- + Vast experience of development of customer-specific formulae for leading agroholdings in Russia, Europe and Asia

Everything will grow up!

PEAT FRACTIONS. SIZE DOES MATTER!

0-10

For use in small pots
and cassettes



Low level decomposition
(high moor) peat

Air-holding capacity

10-15%



Humidity

45-65%



Ash content no more than

10%

0-20

For use in middle-size
pots



Low level decomposition
(high moor) peat

Air-holding capacity

15-30%



Humidity

45-65%



Ash content no more than

10%

0-40

For use in large pots
and planting holes



Low level decomposition
(high moor) peat

Air-holding capacity

30-60%



Humidity

45-65%



Ash content no more than

10%

15-40

For use in large pots
and planting holes



Low level decomposition
(high moor) peat

Air-holding capacity

30-60%



Humidity

45-65%



Ash content no more than

10%

ADDITIVES. WHAT IS IT INSIDE?

Additives impact on agrophysical properties of soil and growing plants

Additives	Air-holding capacity	Drainage	Soil pedality	Soil capillarity	Moisture capacity	Wetting property	Buffering capacity	Capacity of nutrients accumulation/-exchange	Germination ability/viability
Dolomite/ limestone powder							●	●	●
Clay pebbles		●		●	●	●	●	●	●
Sand				●	●	●			
Perlite	●	●	●						
Vermiculite	●	●	●						
Pine bark	●	●	●						
Biohumus				●		●	●	●	●
Low moor peat				●	●	●	●	●	●
Low level decomposition peat	●	●	●	●	●	●	●	●	

PRODUCTION. HOW DO WE PRODUCE THE PRODUCTS WHICH WILL HELP YOU TO GROW?

Everything will grow up!

Production of substrates

Our mixing lines are completely computerized. Quality of feed stock and finished substrates is ceaselessly controlled throughout the whole production process.

Upon production process completion, contents of each package is controlled in Company's laboratories according to the chosen formulae of the finished product.



Peat is extracted from the fields by machine or pneumo-method



The feed stock is moved to the screening (fraction dividing) line



Storage tanks for raw materials of various fractions



Real-time production control is performed at all production stages without operators. Up to 4 different substrate formulae can be produced at one time.



Screened peat and necessary additives are added according to the chosen formula and moved along the conveyor belt to the mixing line.



The mixing line.



From the mixing line the finished product moves to packaging



Special equipment forms a bag, doses a filling rate, compresses the contents and moves it further to be loaded on a pallet.



A ready pallet with finished products



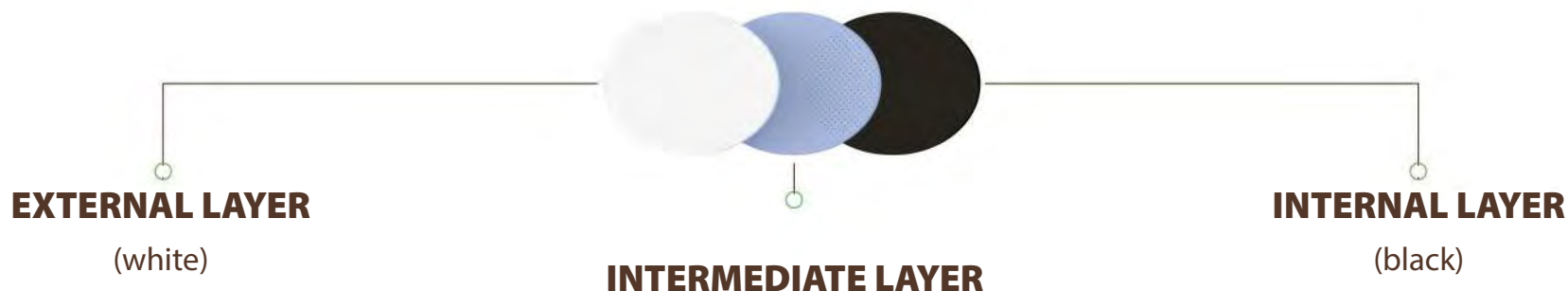
A ready pallet moving through a stretch-hooding machine.



A pallet with finished products is prepared to be delivered to customers.

PACKAGE. PACKAGING OF OUR PRODUCTS DOESN'T SUBSTITUTE THE CONTENTS, BUT PRESERVES IT

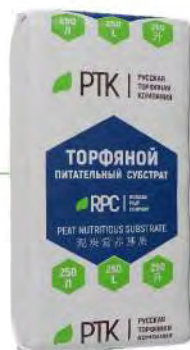
FOR SUBSTRATES PACKAGING (PACKED BAGS OF 5-10-25-40-50 l) AND BALES (150-250 l) WE USE SPECIALLY DEVELOPED THREE-LAYER FILM
RPC substrates are shipped in professional package. Product volume in each package is measured according to European Norm EN-12580,
which is 100% guarantee that the product volume will meet customer's expectation.



Protects soil from overheating and, correspondingly, from possible plants killing;
More environmentally friendly since it contains no dye added;
More cost effective since it requires no extra costs for complex spot-color application (toning in bulk);
Resistant to discoloring in sunlight.

Improves tear-resistance properties of package when packaging large areas – the package is 15-20% more durable than its one-layer counterparts;
Allows for safe adhesion of layers of different formulae;
Provides anticondensation function.

Shuts out light, thus preventing growth of weeds and microorganisms;
Due to shutting out UV light, preserves the peat structure.



A bale – 150-250 l
Compression value – 2.14-2.7
Durable, impermeable, light-proof



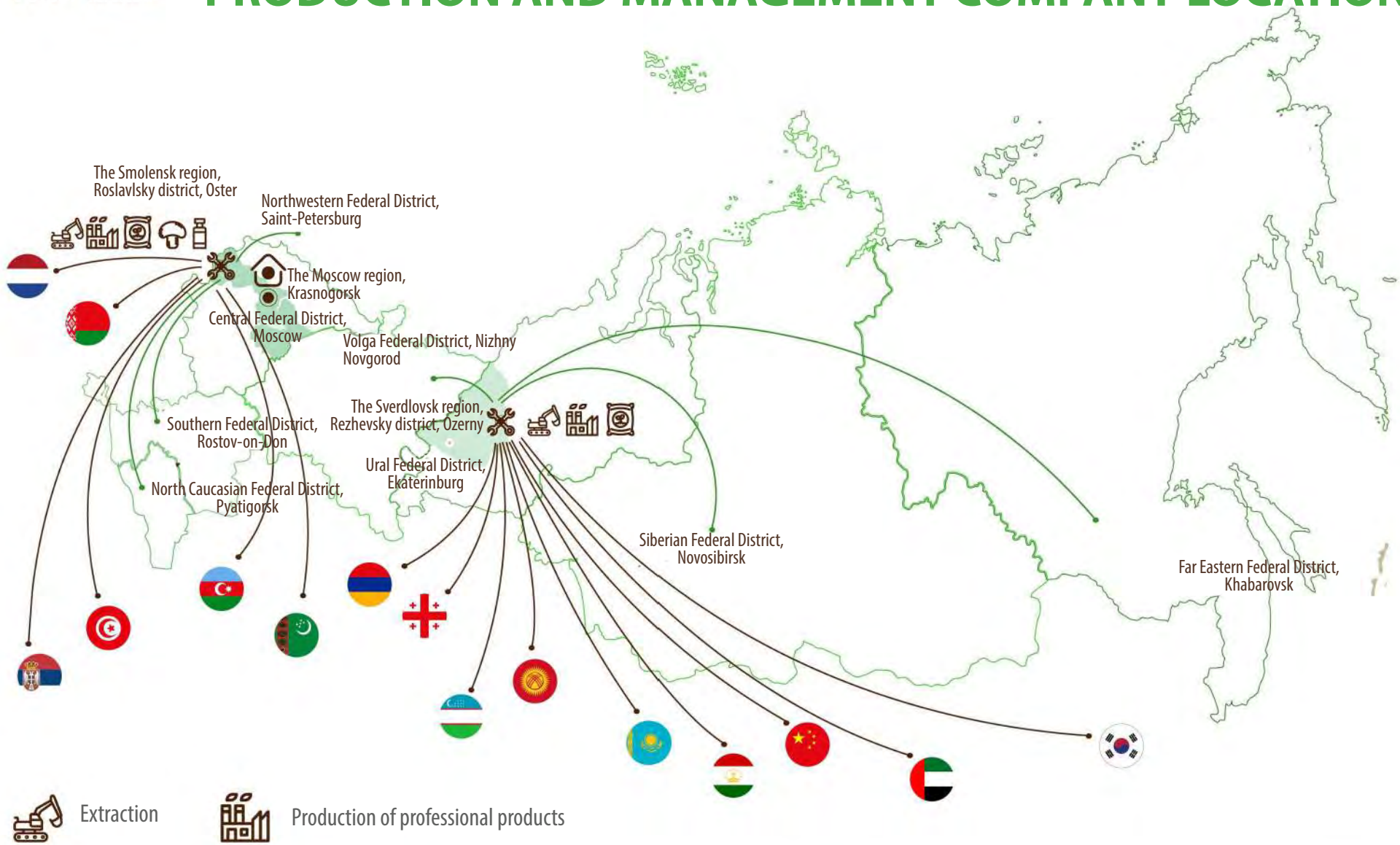
A big bale (stretch-hood) – 3000-5000 l
Compression value – 2.14-2.7 Durable, impermeable, light-proof







A big bag – 1000 l
Compression value – 0
Maximum durability, easy-to-use (with straps)

Everything will grow up!

PRODUCTION AND MANAGEMENT COMPANY LOCATION



 Extraction
  Production of professional products

 Production of packed products
  Casing soil production
  Production of RPC humates and sorbents (products for soil restoration)

Everything will grow up!

SALES GEOGRAPHY IN CHINA

The Sverdlovsk region, Rezhevsky district, Ozerny



Forwarding and brokerage services by our partners within the territory of China

Everything will grow up!

OUR LOGISTICS ADVANTAGES



Prompt loading at a Company's warehouse (at a plant)



Plants geography = easy all regions logistics



Short run to Central Federal District, Ural and Siberia



Availability of container transport from Ekaterinburg to Irkutsk, Krasnoyarsk, Barnaul, Far East, Novorossiisk, etc.



Container train shipping throughout the RF and abroad



A vast network of partners-forwarders = transportation of any complexity throughout RF and the world



Type of a vehicle



Capacity



Loading time



A container 40'HC
A container train

Up to 30 pallets

1.5 hour
Collecting a container train of 46-62 high-capacity containers for 5 days



A 20 tons trailer truck

Up to 27 pallets

1 hour



A railroad car

Up to 68 tons

12 hours and more

Everything will grow up!

HOW TO CHOOSE THE RIGHT RPC SUBSTRATE? THE FORMULAE GUIDE

Cultivation under cover

CROPS



Vegetables (cucumbers, tomatoes, pepper)

Leafy greens (salad, leek, parsley, dill)

Berries

Flowers (roses, tulips, etc.)

Seedlings

Plants

Bog whortleberry

Strawberry, raspberry, dewberry

Annual

Perennial

TN11s-17s
TPS26s-30s
TPS46s-50s
Fraction 0-10
pH 5.5-6.5

TN11s-17s
TN11sk-17sk
TPS46s-50s
TPS66s-70s
Fraction 0-10/0-20
pH 5.5-6.5

TN11s-17s
TPS26s-30s
TPS46s-50s
Fraction 0-10
pH 5.5-6.5

TNSP1s-4s
TNSP1sk-4sk
Fraction 0-40/15-40
pH 4.2-5.0

TN11s-17s
TPS26s-30s
TPS46s-50s
TPS66s-70s
Fraction 0-20/0-40
pH 5.5-6.5

TN11s-17s
TPS26s-30s
TPS46s-50s
TPS66s-70s
Fraction 0-10/0-20
pH 5.5-6.5

TN11s-17s
TPS26s-30s
TPS66s-70s
Fraction 0-10/0-20
pH 5.5-6.5

Everything will grow up!

HOW TO CHOOSE THE RIGHT RPC SUBSTRATE? THE FORMULAE GUIDE

Cultivation open ground

CROPS



Berries

Bog whortleberry,
bilberry, cranberry

TNSR1s-4s
Fraction 0-20/0-40/15-40
pH 4.2-5.0



Fruit trees and bushes

Strawberry, dewberry,
raspberry

TN11s-17s
TPS26s-30s
TPS46s-50s
TPS66s-70s
Fraction 0-20/0-40
pH 5.5-6.5



Ornamental trees and
shrubs

TN11s-17s
TPS26s-30s
TPS46s-50s
TPS66s-70s
Fraction
0-10/0-20/0-40/15-40
pH 5.5-6.5




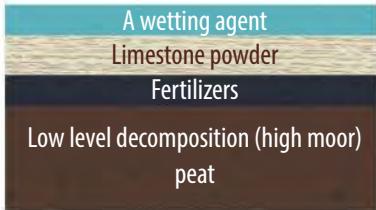

Conifers

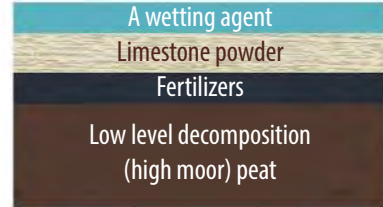
TNSR1s-4s
TPS41s-45s
Fraction
0-10/0-20/0-40/15-40
pH 4.5-5.2

BASIC FORMULAE

The most popular formulae tested by experience of hundreds of agronomists. Universal and safe

Substrate:	Low level decomposition (high moor) peat	Neutralized peat	Peat nutritious substrate
Formula:	1C	11C	46C
Main components:			
Amendments:	-	Limestone powder	Limestone powder
Acidity: aqueous suspension pH	4,2-5,0	5,5-6,5	5,5-6,5
Acidity: aqueous suspension pH	45%-65%	45%-65%	45%-65%
Fertilizers:	-	-	PGMix
Fertilizers content (kg/m ³)	-	-	1
Fractions and purpose, mm	<p>Universal, for seedlings (in cassettes). For flower and berry crops (bog whortleberry, cranberry, bilberry). A base for substrates preparation.</p>	<p>Universal, for vegetable (tomatoes, cucumbers, peppers, etc.) and for berry crops. For seedlings (in cassettes).</p>	<p>Universal. For small pots and cassettes.</p>
0-10			
0-20	For conifers, for flower and berry crops (bog whortleberry, cranberry, bilberry).	For fruit and berry crops. For pots and planting holes.	Universal. For pots of medium size.
0-40	For conifers and hardwoods. For flower (including roses) and berry crops (bog whortleberry, cranberry, bilberry).		
15-40	For large pots and planting holes, for making up	-	-
Packaging:	Bales: 150/250 l Big bales: 3000/4000/4500/5000 l	Bales: 150/250 l Big bales: 3000/4000/4500/5000 l	Bales: 150/250 l Big bales: 3000/4000/4500/5000 l

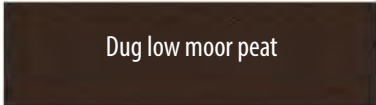
Substrate:	Peat nutritious substrate "Premium"		
Formula:	"Antistress" (68ск)	114С	119С
Main components:			
Agroperlite:	10%	-	10%
Amendments:	Limestone powder	Limestone powder	Limestone powder
Acidity: aqueous suspension pH	5,5-6,5	5,5-6,5	5,5-6,5
Moisture content, no more than:	45%-65%	45%-65%	45%-65%
Fertilizers:	PGMix	PGMix	PGMix
Fertilizers content (kg/m ³)	1,2	1	1
Micronutrients:	"Antistress"	+	+
A wetting agent:	FibaZorb+	FibaZorb+	FibaZorb+
Fractions and purpose, mm	Universal, for all plants and flowers, increases growth and germinability: for pricking out and planting in small pots and cassettes	Universal sowing substrate for seedlings, plantlets, seeding and young plants in small pots and cassettes	Universal substrate for all plants and flowers, increases growth and germinability: for pricking out and planting in small pots and cassettes
0-10			
0-20	Universal, for all plants and flowers, increases growth and germinability: for pricking out and planting in pots of medium size	Universal sowing substrate for seedlings, plantlets, seeding and young plants in pots of medium size	Universal substrate for all plants and flowers, increases growth and germinability: for pricking out and planting in pots of medium size
0-40 15-40	Universal, for all plants and flowers, increases growth and germinability: for pricking out and planting in large pots and planting holes	Universal sowing substrate for seedlings, plantlets, seeding and young plants in large pots and planting holes	Universal substrate for all plants and flowers, increases growth and germinability: for pricking out and planting in large pots and planting holes
Packaging:	A bale: 150 l, 250 l	A bale: 150 l, 250 l	A bale: 150 l, 250 l

Substrate:	Peat nutritious substrate "Premium" Extra Plus		
Formula:	"Antistress" Plus (70ck)	"Grow"	"Start"
Main components:			
Agroperlite:	30%	-	-
Amendments:	Limestone powder	Limestone powder	Limestone powder
Acidity: aqueous suspension pH	5,5-6,5	5,5-6,5	5,5-6,5
Moisture content, no more than:	45%-65%	45%-65%	45%-65%
Fertilizers:	PGMix	PGMix	Start&Grow
Fertilizers content (kg/m ³)	1,2	1,2	1
Micronutrients:	"Antistress" Plus	+	+
A wetting agent:	FibaZorb+	FibaZorb+	FibaZorb+
Fractions and purpose, mm	Universal substrate for all stress susceptible plants and flowers, increases growth and germinability: for prickling out and planting in small pots and cassettes	Universal substrate for all plants and flowers, increases growth and germinability: for prickling out and planting in small pots and cassettes	Universal substrate for all plants and flowers, increases growth and germinability: for prickling out and planting in small pots and cassettes
0-10			
0-20	Universal substrate for all stress susceptible plants and flowers, increases growth and germinability: for prickling out and planting in pots of medium size	Universal substrate for all plants and flowers, increases growth and germinability: for prickling out and planting in pots of medium size	Universal substrate for all plants and flowers, increases growth and germinability: for prickling out and planting in pots of medium size
0-40 15-40	Universal, for all plants and flowers, increases growth and germinability: for prickling out and planting in large pots and planting holes	Universal substrate for all plants and flowers, increases growth and germinability: for prickling out and planting in large pots and planting holes	Universal substrate for all plants and flowers, increases growth and germinability: for prickling out and planting in large pots and planting holes
Packaging:	A bale: 150 l, 250 l	A bale: 150 l, 250 l	A bale: 150 l, 250 l

CASING SOIL FOR PROFESSIONAL MUSHROOM CULTIVATION

CASING SOIL FOR PROFESSIONAL MUSHROOM CULTIVATION

A product for producers of excellent quality champignons. It boasts higher moisture capacity, stable structure and sanitary cleanness

Substrate:	Casing soil	Low level decomposition (high moor) peat	Separated dug peat
Formula:		-	
Main components:			
Defecate:	+	-	-
Structure:	Lumpy, stable	According to fractions	According to fractions
pH:	>7,2	>4,2-5,0	>3,5-4,0
Moisture content, no more than:	80%	55%-65%	80%
Moisture capacity:	600%	600%	600%
Ash content, not more than:	20%	20%	20%
Fractions and purpose, mm			
0-20	-	+	+
0-40	-	+	+
15-40	-	+	+
Packaging:	1000 l (a big bag)	3000 l (a big bag)	1000 l (a big bag)



**PEAT SUBSTRATES
OF HOBBY SEGMENT**

Everything will grow up!

Unique Selling Proposition HOBBY



Natural soils for your favorite plants

- Air-filled structure allows plants to breathe;
- Spongy structure of sphagnum-based peat prevents plants drying and then slowly releases moisture required for a plant;
- Provides plants with organic and mineral fertilizers;
- Guarantees lack of diseases, pests and weed seeds

Liquid humic fertilizers

- Participates in humus layer restoration;
- Improves nutrients accessibility in soil (including insoluble salts);
- Stimulates extensive root system formation;
- Increases germination readiness (when soaking)

A mini-seedbed

- Perfect for growing seedlings and greens at home;
- Contains an optimal set of fertilizers;
- A planting "tube" is 30% larger than a standard one, which stimulates extensive and healthy root system formation;
- When replanting, a "tube" is easily picked out of a cassette due to grooves for fingers – a safe plant with clean hands

Everything will grow up!

PEAT SUBSTRATES OF HOBBY SEGMENT

Brand	Mixture of peats of different level of decomposition	Limestone powder	Compound fertilizer	KUMUS-1	Biohumus	Agroperlite	Sand	Bark	Perlite	Nitrogen (NH ₄ +NO ₃)	Phosphorus (P2O5)	Potassium (K2O)	Acidity: aqueous suspension pH		Moisture content, not more than	Packaging	
													Reference	Value			
Floral	●	●	●			●				150	170	200	Not less than	5,5	65%	From 2.5 to 50 l	
Bio soil	●	●	●		●	●				200	260	280					6,0
Ficus	●	●	●							160	190	200					5,8
Geranium	●	●	●							130	160	180					
Rose	●	●	●		●					120	140	200					
Violet	●	●	●							110	120	180					
Orchid	●	●		●				●		100	100	120					
Cactus	●	●	●				●		●	90	120	150					
Begonia	●	●	●			●				120	180	180					
Citrus fruit	●	●	●							160	190	220					
Palm	●	●	●				●			160	160	200					
Lawn	●	●	●			●				160	150	200					
Neutralized Peat	●	●															
Cucumber, squash, pumpkin	●	●	●			●				150	160	180					
Tomatoes and peppers	●	●	●			●				160	170	200					
Greenhouses	●	●	●			●				120	140	220					
Seedlings	●	●	●			●				120	140	160					
Garden soil	●	●	●				●			130	150	250					
Universal soil	●	●	●			●				140	180	200					
Bog whortleberry, bilberry and cranberry	●	●	●			●				90	130	100	5,0				
Conifers	●	●	●							90	100	180					
Azalea	●	●	●			●				100	130	140	Not more than	5,0			
Heather, Hydrangea and Rhododendrons	●	●	●							100	90	100					
Low moor peat	●												Not less than	3,5			
Peat for compost toilets	●												Not less than	3,5	50%		



Everything will grow up!