JOINT-STOCK COMPANY

POLOTSK-STEKLOVOLOKNO

65 years

Glass fiber production



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65 years
Glass fiber production

ABOUT COMPANY



- 1958 YEAR OF FORMATION
- 3700 NUMBER OF EMPLOYEES
- 50 HA INDUSTRIAL COMPLEX AREA
- 55 COUNTRIES GEOGRAPHY OF SUPPLIES
- 90% EXPORT OF PRODUCTS

ONE OF THE WORLD'S LEADING MANUFACTURERS OF GLASS FIBER AND PRODUCTS ON ITS BASIS

65 years
Glass fiber production

FULL CYCLE OF TECHNOLOGICAL PROCESSES



BATCH PREPARATION



GLASS MELTING



FIBER FORMING



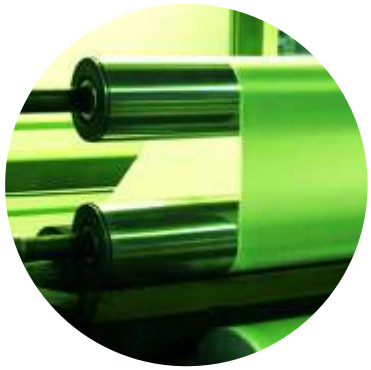
UNWINDING, TWISTING, PLYING



WARPING, SLASHING



WEAVING



THERMAL AND CHEMICAL TREATMENT

65 years
Glass fiber production

HIGH-TEMPERATURE SILICA MATERIALS

TYPES OF SILICA GLASS:

- No. 11 with SiO2 content of 95±1% (operating temperature up to +1100°C)
- Puresil with SiO2 content of 99±1% (operating temperature up to +1200 °C)



TYPES OF MATERIALS:

fabrics; filtering meshes; yarns, incl. sewing; fiber; fire and welding blankets, other finished products.

Superb high-temperature insulation for critical industrial branches.








technical data sheet

65 years
Glass fiber production

HIGH-TEMPERATURE SILICA MATERIALS

FIELDS OF APPLICATION:

- MANUFACTURING OF FIRE PROTECTION ARTICLES:
  Welding blankets, fire blankets, screens and curtains.
- HIGH-TEMPERATURE INDUSTRIAL INSULATION:
  Insulation of furnaces, turbines, nuclear power plants, oil platforms, equipment.
- METALLURGY:
  As a filter for cleaning molten metals
- AUTOMOTIVE AND AEROSPACE INDUSTRY:
  Insulation of gas exhaust systems, etc
- AS A RAW MATERIAL FOR PRODUCTS:
  Thermal insulation mats and sleeves



65 years
Glass fiber production

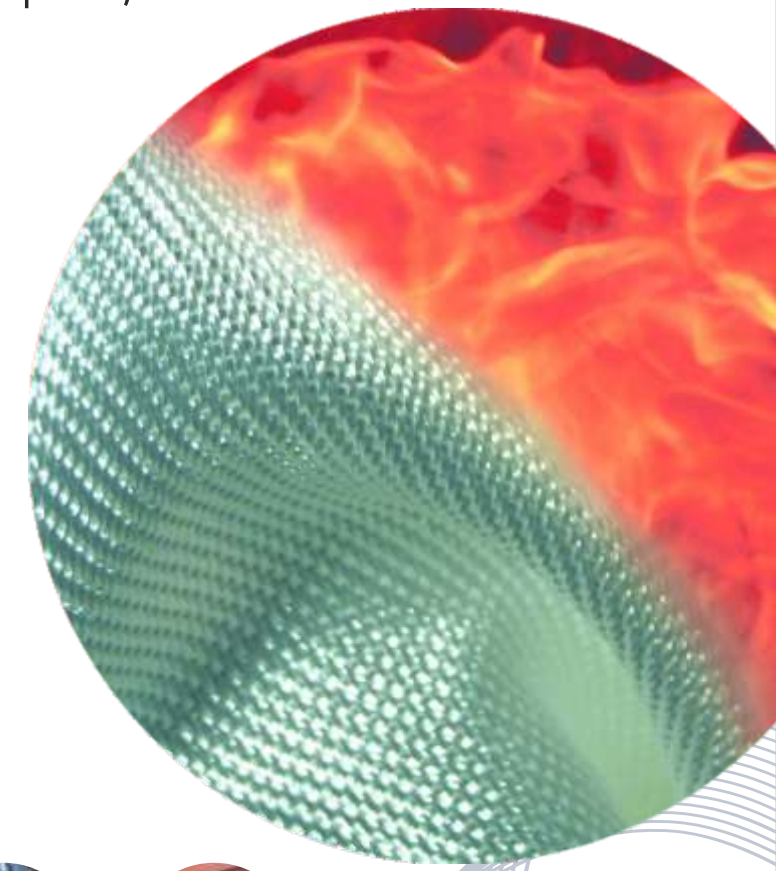
SILICA FABRICS

Silica fabrics are used as a substitute for asbestos in various industries:

- as high-temperature industrial insulation (insulation of furnaces, turbines, oil platforms, equipment, aerospace equipment, nuclear power plant reactors);
- for manufacturing finished products (welding blankets, fire blankets, smoke and flame-retardant screens and curtains, thermal insulation mats and sleeves, casings to protect equipment).

Fabric type	Weave type	Fabric count, yarns per 1 cm		Weight per unit area, g/m²	Tensile strength, N/2,5 cm, not less		Mass fraction of Na_2O, %, not more	Loss on ignition at temperature 1000°C, %	Width, cm
		warp	weft		warp	weft			
Silica fabrics (SiO_2 content not less than 98%)									
PS-1000-S	satin 12/7	17±1	13±1	1100±100	1800	1400	0,7	7-12	(62-210)±2
PS-1000-S-CH	satin 12/7	17±1	13±1	1100±100	1800	1400	0,7	7-14	(62-210)±2
PS-1000-S-TO	satin 12/7	17±1	13±1	1100±100	790	490	0,7	not more than 4,0	(62-210)±2,5
Silica fabrics from texturized yarns (SiO_2 content not less than 98%)									
PS-1400T	basket	12+1	6±1	1400±140	740	340	0,8	7-12	(62-210)+3-2
Silica fabrics (SiO_2 content not less than 98%)									
PS-180	plain	10+1	10±1	180±30	490	392	0,8	7-12	(88,95,100)±2
PS-600-S	satin 8/3	19±1	13±1	580±40	1100	800	0,7	7-12	(62-210)±2
PS-600-S-CH	satin 8/3	19±1	13±1	600±50	1100	800	0,7	7-14	(62-210)±2
PS-600-S-TO	satin 8/3	17±1	13±1	580±60	500	300	0,7	not more than2,0	(62-210)±2,5
Silica fabrics (SiO_2 content not less than 94%)									
KT-11-30K	plain	9±1	8±1	300±30	780	740	0,8	7-12	(62-210)±3
KT-11-TO-30K	plain	9±1	8±1	300±30	300	300	0,7	not more than 1,0	(62-210)±3
KT-600-C	satin 8/3	19±1	13±1	600±60	1370	1080	0,7	7-12	(62-210)±2
KT-600-C-V	satin 8/3	19±1	13±1	600±50	1370	1080	0,7	7-12	(62-210)±2
KT-600-C-TO	satin 8/3	19±1	13±1	550±100	980	690	0,7	7-12	(62-210)±2,5
KT-1000-C	satin12/7	17±1	13±1	1100±100	1960	1470	0,7	7-12	(62-210)±2
KT-1000-C-V	satin12/7	17±1	13±1	1100±100	1960	1470	0,7	7-14	(62-210)±2
KT-1000-C-TO	satin12/7	17±1	13±1	1100±100	1470	980	0,7	not more than 4,0	(62-210)±2,5

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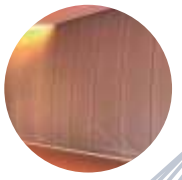












WELDING SILICA SCREEN

Welding screens are supplied to the Kuwait market. Kuwait National Petroleum Company uses them for repair and welding work at oil production and refining facilities.

- Made of silica fabric with operating temperature up to 1200C
- Provides protection during welding and grinding operations
- Provides protection during plasma cutting of metal
- Non-flammable









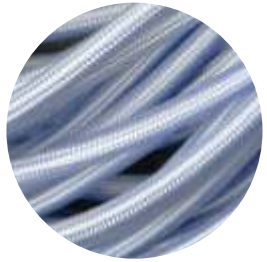
65 years
Glass fiber production

SILICA YARNS

Silica yarns are used for weaving fabrics, tapes, braids for high-temperature insulation; in the cable industry in case of exposure to high temperatures up to 1200 C; for stitching silica fabric articles for fire protection, welding protection and other types of protection of technological equipment.



SiO_2 - not less 94%					
Yarn type	Total yarn linear density, tex	Twist value per 1 m	Twist direction: S - left Z - right	Tensile strength, N(kgf), not less	Loss on ignition, %
К11С6 68	68±5	200±20	S	15,0(1,5)	7-12
К11С6 90	90±7	150±15	S	20,0(2,0)	7-12
К11С6 136	136±10	130±13	S	29,0(3,0)	7-12
К11С6 180	180±14	150±15 or 250±25	S	39,0(4,0)	7-12
К11С6 180 х 3	540±42	20±4 or 100±15	Z	98,0(10,0)	7-12
К11С6 170 ВА	170±20	150±15	S	39,0(4,0)	not more than 2
К11С6 170 ВАF (sewing yarn)	220±26	250±25	S	59(6,0)	not less than 17
К11С6 170 х 2 БА	340±40	100 15	Z	69,0(7,0)	not less than 2





65 years
Glass fiber production

SILICA FIBER

Silica fiber is mainly used for the production of a needle felt that is widely applied in the automotive industry, metallurgy, nuclear and thermal power plants, insulation in electrical and combustion furnaces.

Fiber type	Nominal diameter of filament, microns	Fiber length, mm	Mass fraction of Na_2O, % not more	Loss on ignition, %	Moisture, %, not more
(SiO_2 - not less 94%)					
KV-11(6), KV-11(9)	6±1, 9±1	50-100	0,8	7-12	3,5
(SiO_2 - not less 98%)					
PS-23(9)	9±1	50-100 150-200	0,8	7-12	3,5







65 years
Glass fiber production

ELECTRICAL INSULATION MATERIALS

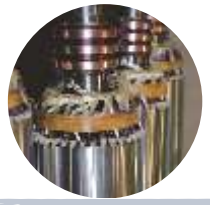
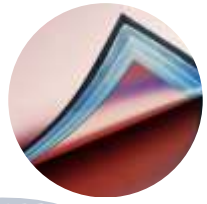
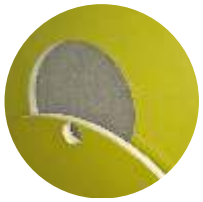


Electrical insulation materials

Electrical insulation glass fabrics with surface density from 24 to 400 g/m2 are used for producing:

- Foiled laminates (printed circuit board basis);
- Technical plastics;
- Flexible insulations (glass fabrics, micanites, mica-like materials).

Application: production of blocks, panels, computer circuits, devices, insulation of electric motors and electric machine units, electric circuits.



technical data sheet

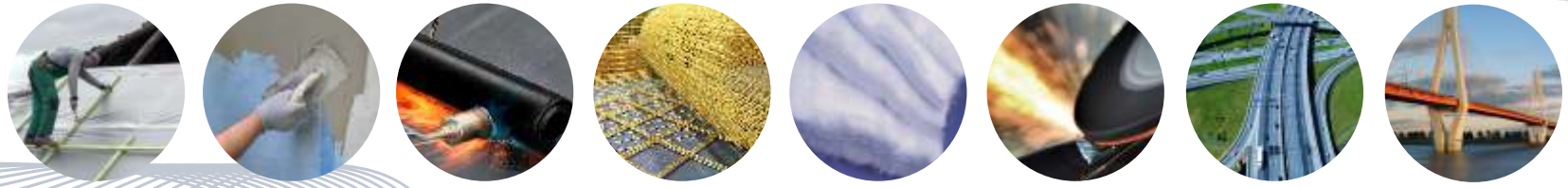
65 years
Glass fiber production

BUILDING AND THERMAL INSULATION MATERIALS

- Building glass fiber meshes
- GRP composite mesh
- Thermal insulation non-woven materials (mats)
- Rolled glass reinforced plastic
- Building windproof membrane
- Building glass fabrics
- Glass fabrics RATL for roofing materials
- Building insulation glass fabrics ISOBLACK, ISOWHITE
- Glass mesh for reinforcement of cutting wheels



Applied almost in all branches of industry – from building of underground utilities to roofing installation and repair.



technical data sheet

65 years
Glass fiber production

MATERIALS FOR GRP AND OTHER TECHNICAL APPLICATIONS

TYPES OF MATERIALS:

- Rovings (incl. direct and spray-up rovings);
- Glass fabrics (incl. roving fabrics);
- Chopped strand mat (CSM);
- Yarns;
- Chopped fiber.



Application in the composite industry.








technical data sheet

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We will be glad to see you as our partners and clients!