



**АРПЛАСТИК**

Ижевский Завод Композитных Технологий

***Buy fiberglass reinforcement and mesh  
direct from the Manufacturer***

*Designed by ARPLASTIK company*



*Modern technologies make it possible to produce non-metal composite building materials that have an obvious advantage over traditional metal ones.*

***Advantages over metal are as follows:***

- ✓ *9 times lighter*
- ✓ *3 times stronger*
- ✓ *10-30% cheaper*
- ✓ *Non-corrosive material*
- ✓ *Low heat conductor*
- ✓ *dielectric*
- ✓ *Any length*
- ✓ *Long service life, not less than 80 years*
- ✓ *Operation temperature range from -70 up to +100 °C*



*We are ready to supply composite fiberglass (ASP) reinforcement, fiberglass masonry mesh (KSP) and (KSPK) flexible wall ties (GS) for construction works.*

### **FIBERGLASS REINFORCEMENT**



### **Characteristics:**

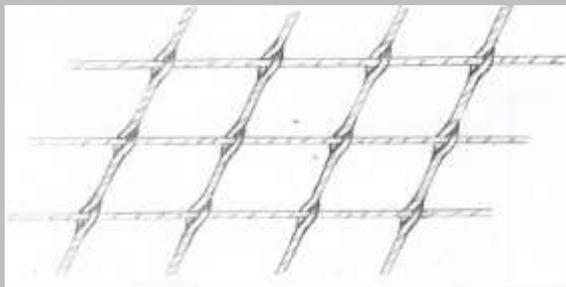
- ✓ *Rod length: at customer's request*
- ✓ *Rod diameter: from 4mm up to 18mm*
- ✓ *Covering with sand, as well as without sand*

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### **MASONRY MESH *KSPK NEW***

***It is unique as a mesh cell is formed as the following: a cross rod passes through a longitudinal rod that is subsequently twisted. Due to this process, the connection is as strong as possible.***



#### ***Characteristics:***

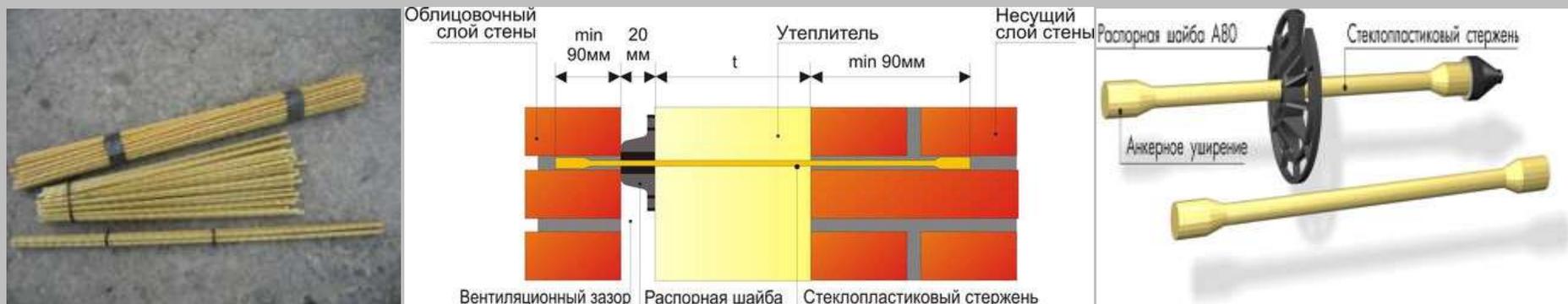
- ✓ ***No analogs***
- ✓ *Sheet width: from 0.5 up to 3m*
- ✓ *Sheet length at customer's request*
- ✓ *cell: from 50\*50mm, 100\*100, 150\*150, 200\*200*
- ✓ *possible to form cells 50\*70, 100\*50 etc.*
- ✓ *rod diameter: from 2mm up to 12mm*
- ✓ *covering with sand, and without sand*

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## **FLEXIBLE TIES**

**A flexible tie** connects a load-bearing wall to a heat insulating and a facing layer. A flexible tie is a circular rod thickening or not to the ends. These widening works as a fixing anchor in masonry joints.



### **Characteristics:**

- ✓ rod length: at customer's request
- ✓ rod diameter: 4mm, 5,5mm, 7,5mm
- ✓ with anchor widening 7,7mm / without anchor widening
- ✓ covering with sand, and without sand

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### ***Table of replacement with metal***

<b><i>Composite reinforcement (ASP) — fiberglass</i></b>	<b><i>Metal reinforcement class A-III (A400C) GOST 5781-82</i></b>
<b><i>ASP-4</i></b>	<b><i>6A-III</i></b>
<b><i>ASP-6</i></b>	<b><i>8A-III</i></b>
<b><i>ASP-8</i></b>	<b><i>12A-III</i></b>
<b><i>ASP-10</i></b>	<b><i>14A-III</i></b>
<b><i>ASP-12</i></b>	<b><i>16A-III</i></b>



## ***Fiberglass reinforcement (ASP) range of application***



- ✓ ***Road slabs, asphaltic concrete road works*** (especially elastic foundations). It is particularly recommended to use composite reinforcement in construction elements treated by chemical reagents.
- ✓ ***Fiberglass reinforcement is applied in bridge building***

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- ✓ **Reinforced concrete works when** building and repairing swimming pools, reservoirs with chemically active substances, storm sewage system, pipelines.
- ✓ **Reinforcing while pouring foundations**, especially in concrete with Portland-blastfurnice cement, trass cement, mixed binders high in active mineral additives as well as continuous concrete with chloride-containing antifreezing agents (calcium chloride, calcium nitrate-chloride, calcium nitrate-chloride with carbamide and other)
- ✓ **Monolithic low-rise buildings.** According to the modulus of elasticity, it is allowed to design buildings with composite reinforcement up to the fourth floor. If there is no possibility to satisfy regulatory requirements for protective layer thickness (thin-walled structures, for instance, panels of noise protection constructions, fence and others)
- ✓ **Creating repair or architectural forms** with gypsum binders.
- ✓ **Monolithic pouring of non-bearing walls and partitions** makes buildings lighter and there is less load on bearing structures.
- ✓ **Reinforcing brick or concrete masonry units with flexible ties**, especially in winter when masonry mortar with antifreezing additives and accelerators is used.
- ✓ **Building hydraulic facilities:** embankments, mooring berths, coast-protecting structures, wave breakers.
- ✓ At present there are no recommendations for using composite reinforcement in ceilings and bearing walls of multistoreyed buildings. However, tests are being carried out to create bands of aseismic stability on its basis.

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***Economic benefit from using fiberglass reinforcement is up to 30%:***

✓ ***Saving in the equipment cost***

✓ ***Transportation saving***

*There is no need to rent a large goods vehicle. You can use your own car or rent the GAZelle vehicle.*

✓ ***Saving in handling operations***

*Due to light weight, you can do without loaders and special vehicles.*

✓ ***Energy and material saving***

*There is no need to use an angle grinder and cutting wheels, reinforcement can be cut with cutting pliers.*

✓ ***It is possible to eliminate waste products*** as reinforcement can be cut any length.

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*Arplastik team has launched manufacturing composite, fiberglass reinforcement, fiberglass mesh as well as equipment for producing these products and non-standard equipment at Customer's request. We were the first who invented the technology of one-cycle composite mesh production.*

*We are open for cooperation and have a vast experience in setting up production both in Russia and abroad. Our products and equipment sales geography includes the whole territory of Russia from Kaliningrad to Vladivostok.*

***We appreciate your taking the time to read the proposal!***

***Respectfully,***

*Arplastik team.*

*For more details about the products, please, visit our website [www.arplastik.ru](http://www.arplastik.ru) or contact our managers. Call (3412)912-622, 912-623, 8-919-919-95-33 to order and buy.*

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