

Reinforced Polymer Bars Fiberglass



Composite Materials
Factory from Yaroslavl

We are the solution
for corrosion

ARMOTEX



New technology in the production
of polymers with glass fiber
reinforced (GFRP) for use
in the construction.

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NEW TECHNOLOGY IN THE PRODUCTION OF POLYMERS WITH GLASS FIBER REINFORCED (GFRP) FOR USE IN THE CONSTRUCTION.

Lead the national and international armor
composites market as an innovation to
replace steel as well as reduce the cost and
increase the durability of buildings.

Enter the composites at project "breaking"
with conservatism in construction.

The successful development of these products and
the growing demand for FRP structures inside and
outside the Russian Federation, require producers
those new materials to work with the highest
quality standards. In 2014 ARMOTEX which is the
company that represents the interests of
Composite Materials Factory Yaroslavl in the
International market is created. Our company has
continued exports to various countries in Asia,
Latin America and the Caribbean.

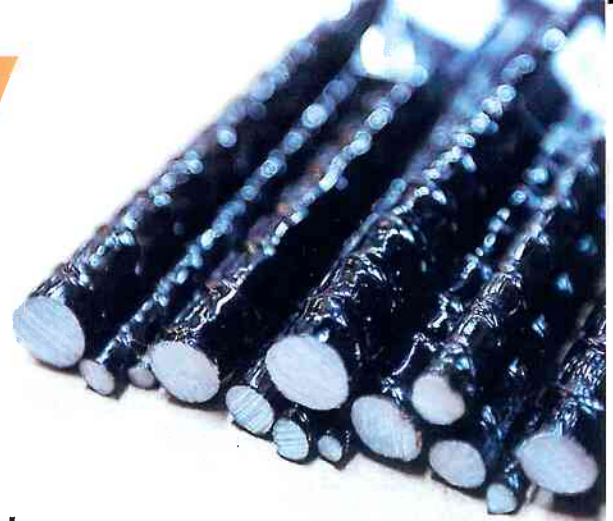


COMPARISON OF CHARACTERISTICS OF STEEL AND COMPOSITE GFRP BARS

Characteristic	Steel Bars A-III (A400S), GOST 5781-82	Glass Fiber Reinforce Polymers bars (GFRP) GOST 31938-2012
Materials	Steel	Glass fibre reinforce Polymers (GFRP) with resin epoxy
Tensile strength, MPa	390	800
Lengthening, %	14	2,2
Tensile modulus Ef, MPa	200 000	50 000
Compression strength, MPa	390	300
Cross section cut strength, MPa	273	150
Corrosion Resistent	Have corrosion	Material not corrosive
Thermal Conduitivity	Yes	No
Electric Conductivity a	Yes	No, dieléctric
Profile produced in mm	6-80	4-20
Length, m	6-12	According to customer request
Ecology quality	Ecology	No toxic, for humans been belonce to the 4ta clase for embiroment dangher
Durability	In agreements withnational standars	More that 80 years
Equivalence between steel bars and GFRP considerents only tension strength and Area in mm ²	6AIII - 28,3 8A-III - 50,3 10A-III - 78,5 12A-III - 113,1 14A-III - 153,9 16A-III - 201,0 18A-III - 254,3 20A-III - 314,0	PRFV 4 - 12,6 PRFV5 - 19,62 PRFV 6 - 28,3 PRFV 8 - 50,3 PRFV 10 - 78,5 PRFV 12 - 113,1 PRFV 14 - 153,9 PRFV 16 - 201,0
Weight in kg for equivalente steel and GFRP bars	6A-III-0,222 8A-III-0,395 10A-III-0,67 12A-III-0,92 14A-III-1,28 16A-III-1,98 18A-III-2,00 20A-III-2,47	PRFV 4-0,028 PRFV 5-0,035 PRFV 6-0,051 PRFV 8-0,087 PRFV 10-0,132 PRFV 12-0,188 PRFV 14-0,265 PRFV 16-0,365

The bars made at this time must meet certain requirements, not only with their technical characteristics and operational, but high quality. From January 2014 the GOST standards, for bars GFRP for reinforcement of concrete were issued. This standard requires producers of this new material to work with the highest quality, while meeting established standards.

In the past working years our factory has achieved recognition as a reliable supplier for quality products and competitive prices.



CARACTERÍSTIC COMPARATIVE FOR THE FLEXIBLE NETS GFRP

Characteristic	Type of nets			
	SBP-S 25x25 Basáltic for the construction	SSP-D 25x25 Fiberglass for the roads	SPB-D 25x25 Basáltic for the roads	SSP-F 5x5 Fiberglass for the costruction
Specifications for the fence in the nets	25x25	25x25	25x25	5x5
Grams in the unity, Surface g/	320±40	320	320	60
Wide cm	100, 200, 450	100, 200	100, 200, 450	70, 125, 145, 160
Density of the mesh rows/m				
in the warp	40±2	40±2	40±2	21±2
in the plot	40±2	40±2	40±2	21±2
Tensile strength				
in the warp	75	50	75	0.9
in the plot	65	50	65	0.6
Lengthening %				
in the warp	6	6	6	6
in the plot	6	6	6	6
Maintenance of the cohesion %	not less of 20	not less of de 20	not less of de 20	not less of 20

The best offerters in ARMOTEX :

- GFRP nets in diferents diameters
- GFRP accessories for the construction





We work to deliver our products all over the world.

With us you can get good prices and high quality

For frequent customers, ARMOTEX have applied system of discounts.

For more information, technical literature, product samples, certificates and results obtained in the different tests by international standards, please contact our office or visit our website www.yazk.ru.

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