COMPOSITE GROUP CHELYABINSK

Beneficiary address: 2nd Paveletskaya str. 36, 454000 Chelyabinsk, Russia

LLC «COMPOSITE GROUP CHELYABINSK»

Beneficiary acc. No: 40702840138180000018

Beneficiary bank : AO «ALFA-BANK»
Beneficiary bank address: Kalanchevskaya str. 27, 107078 Moscow, Russia

SWIFT: ALFARUMM

Quotation.

«COMPOSITE GROUP CHELYABINSK», LLC is a manufacturer and seller of composite fiberglass rebar.

There are many manufacturers of reinforcing elements in Russia, but only «COMPOSITE GROUP CHELYABINSK» is implementing innovational technologies in the production process. Though having been established not so long ago, the company has taken a firm position on the market of composite reinforcing elements due to proper setting of priorities. This was achieved as the result of work of competent professionals who are ready to provide client support.

The LLC «COMPOSITE GROUP CHELYABINSK» company produces competitive rebar of increased durability and resistance to the corrosive effects what is achieved through the use of innovative technologies patented by the company. Technical parameters of our production allow to use it widely both in civil and industrial construction.

The company has a certificate of quality management system ISO 9001-2011 and quality assurance documentation for the production.

Our main priority is the quality of our products; therefore the continuous quality control is performed through all stages of manufacturing:

- Incoming inspection
  Incoming raw materials pass a comprehensive chemical, mineralogical and technical control
- Interim inspection
  Monitoring and controlling the characteristics of the product during all the stages of manufacturing
- Final inspection
  Testing of the finished products for compliance with permit documentation

compositegroupworld.com
armatura@composit-group.ru

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We offer you Composite Fiberglass Rebar for the following prices:

Outer diameter of reinforcing bars, mm	Price per 1 meter (USD)	Meters in 1 ton of the product	Theoretic weight in 1 meter (kg)
	100,000 meters and more		
4	0,11	50 000	0.02
6	0,15	20 000	0.05
8	0,25	12 500	0.08
10	0,37	8 350	0.12
12	0,53	5 000	0.2
14	0,79	3 850	0.26
16	1,07	2 860	0.35
18	Contracted prices	-	-
20		-	-

Any manufactured lengths upon request
The products are available in hanks (from Ø4 mm to Ø10 mm only) or rods.
Larger diameters are available upon request.

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Comparative technical characteristics of Fiberglass and Steel Rebar

Parameter	Steel Rebar	Composite Fiberglass Rebar (FRP)
Material	Steel	Glass roving, epoxy resin based polymer
Tensile strength, MPa	390	1000-1300
Modulus of elasticity, MPa	200 000	50 000
Relative extension, %	25	2,2
Density, t / m3	7	1,9
Coefficient of linear expansion αx*10-5/°C	13-15	9-12
Temporary tensile strength, MPa	360	From 750
Corrosion resistance to aggressive environments	Corroding	Non-corroding material, 1st group of chemical resistance, including the alkaline environment of concrete
Thermal conductivity	Transcalent	Non- transcalent
Electroconductivity	Electroconductive	Non-electroconductive – dielectric
Available profiles, mm	6 — 80	4 — 24
Length	6-12 m rods	Any manufactured lengths of rods and hanks
Environmental friendliness	Environmentally friendly	Sanitary and epidemiological inspection report: no harmful and toxic substances emission
Lifetime	In accordance with building standards about 50 years.	Not less than 100 years (estimated)
Parameters of equally efficient reinforcing cage with a load of 25 t / m2	For 8 A-III steel rebar the cell size is 14 x 14 cm, the weight is 5,5 kg/m2	For 8 FRP the cell size is 23 x 23 cm, the weight is 0,61 kg/m2 (9 times less)

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Equally efficient replacement of Steel Rebar with Composite Fiberglass Rebar (FRP)

Equally efficient replacement – replacement of Steel Rebar with Composite Fiberglass Rebar of the same strength and other mechanical parameters. We mean that the equally effective diameter of FRP is the outer diameter of the Composite Fiberglass Rebar at which its strength is equal to the strength of the metal counterpart of a given diameter. The data are shown in the table below.

Equally efficient replacement

Steel Rebar A-III	Composite Fiberglass Rebar (FRP)
6 A-II	4 (FRP)
8 A-III	5,5 (FRP)
10 A-III	6(FRP)
12 A-III	8(FRP)
14 A-III	10 (FRP)
16 A-III	12 (FRP)
18 A-III	14 (FRP)
20 A-III	16 (FRP)

Approximate price comparison of Steel Rebar and Composite Fiberglass Rebar

Steel Rebar	Price, $ per 1 ton	Weight of 1 linear meter, kg	Linear meters in 1 ton	Price, $ per 1 linear meter	interchangeability	Composite Fiberglass Rebar	Weight of 1 linear meter, kg	Linear meters in 1 ton	Price, $ per 1 linear meter
Ø 8	514,7	0,395	2532	0,20	↔	Φ4	0,02	50000	0,11
Ø 10	514,7	0,617	1621	0,32	↔	Φ6	0,05	20000	0,15
Ø 12	485,2	0,888	1126	0,43	↔	Φ8	0,08	12500	0,25
Ø 14	485,2	1,21	826	0,59	↔	Φ10	0,12	8350	0,37
Ø 16	485,2	1,58	633	0,77	↔	Φ12	0,2	5000	0,53

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If you get alternative offers with lower prices and send us the quotation we are ready to negotiate about providing better prices than the competitors.

We can give you the prices of CIF or CFR delivery in 20ft and 40ft containers.

For example:

Position	Description	Unit	Theoretic weight netto(kg)	Packaging	Container capacity, m
1	Composite Fiberglass Rebar Ø8 mm in 100 m hanks	meter	10 080	20ft container	126000
2	Composite Fiberglass Rebar Ø8 mm in 11,5 m rods	meter	24 000	40ft container	300000 m

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