

GFRP REBAR

These benefits make GFRP an attractive option for a wide range of applications, from construction to marine and industrial uses, offering a versatile and efficient material solution.

Properties

Ultimate tensile strength
Elongation
Modulus of elasticity
Thermal conductivity ratio
Linear coefficient of expansion
Density
Electrical conductivity
Aggressive environment resistance

GFRP rebar
800-1300 MPa
2,20%
55 000 MPa
0.35W/ (m0°C)
9-12 ax-5/°C
1900 kg/m³
Non-conductive
Non-corrosive and acid-resistant

Substitution variants: equal in strength fiberglass rebar that can replace steel rebar with a smaller diameter

Steel rebar

6 A III
8 A III
10 A III
12 A III
14 A III
16 A III
18 A III
20 A III
22 A III
24 A III

GFRP rebar

4mm
6mm
7mm
8mm
10mm
12mm
14mm
16mm
18mm
20mm

Rebars coated with sand lead to stronger chemical adhesion with concrete

- The density of an innovative product is 2,025 T/m³
- The modulus of elasticity of the rods made of composite materials is 50.5 GPA under the action of tensile forces
- The tensile strength is more than 1300 MPA.

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