

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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