BINEVIR
COMPOSITES OF THE FUTURE

TECHNICAL DATA SHEET

FRP REBAR

HS CODE 3916905000

Intended use

Composite rebar is designed for reinforcement of prestressed and non-prestressed construction structures and components (foundations of buildings and structures, reinforcement of concrete floors, reinforcement of roads, etc.)

Design

Composite rebar is a FRP bar of a round section, cut to length, sand coated or plain.

Advantages

- ✓ Absolute corrosion resistance
- ✓ High strength
- ✓ Low weight
- ✓ Absolute ECO-friendliness and fire safety
- ✓ Durability
- ✓ Dielectric
- ✓ Non-magnetic
- ✓ Low thermal conductivity

Technical characteristics

Bar designation	#3	#4	#5	#6
Tensile Strength, not less than	1 000 MPa	1 000 MPa	1 000 MPa	950 MPa
Young's Module, E, not less than	47,0 GPa	47,0 GPa	47,0 GPa	47,0 GPa
Transverse Shear Strength, τ, not less than	150 MPa	150 MPa	150 MPa	150 MPa
Bond Strength to Concrete, not less than	≥8 MPa	≥8 MPa	≥8 MPa	≥8 MPa
Weight	0,16 kg/m	0,27 kg/m	0,45 kg/m	0,68 kg/m
Glass Transition Temperature, not less than	104^{0}C	104^{0}C	105^{0}C	105^{0}C