BINEVIR
COMPOSITES OF THE FUTURE

TECHNICAL DATA SHEET

FRP REBAR
HS CODE 392590800000

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

Property		Certified Results Glass FRP Rebar						
Bar Designation No.	US/Metric	M5	#2/M6	M8	#3/M10	#4/M13	#5M16	#6/M19
Guaranteed Ultimate Tensile Force	kip	4,9	9,2	12,1	15,9	26,8	44,1	49,3
	kN	21,9	40,9	54,0	70,7	119,2	196,1	219,3
Nominal Ultimate Tensile Strength	ksi	160	160	160	145	145	145	112
	MPa	1100	1100	1100	1000	1000	1000	770
Nominal Mean Tensile Modulus of Elasticity	Msi	6,9	6,9	6,9	6,9	6,9	6,9	6,9
	GPa	48	48	48	48	48	48	48
Guaranteed Bond Strength	ksi	1,1	1,1	1,1	1,1	1,1	1,1	1,1
	MPa	7,6	7,6	7,6	7,6	7,6	7,6	7,6
Guaranteed Transverse Shear Strength	ksi	21,7	21,7	21,7	21,7	21,7	21,7	21,7
	MPa	150	150	150	150	150	150	150