



Unicomposite GRP Rebar

Introduction:

FRP rebar is made from high strength glass fiber and polyester resin or vinyl ester resin, by pultrusion and winding process.

Advantages:

CORROSION RESISTANCE – will not rust and is impervious to the action of salt ions, chemicals and the alkalinity inherent in concrete

LIGHTWEIGHT – weigh approximately one-quarter the weight of an equivalent size steel bar offering significant savings in both placement and use

ELECTROMAGNETIC NEUTRALITY – contains no metal, and will not interfere with the operation of sensitive electronic devices such as medical MRI units or electronic testing devices

THERMAL INSULATOR – highly efficient to resisting heat transfer
Applications

APPLICATIONS IN CORROSION RESISTANCE AREA: Wastewater treatment plants, petrochemical plants, pulp paper mills. cooling towers, mining operations of various types, nuclear power and dump plants

Rock bolt



Available dimension:

Typical diameter 16, 18, 20, 22, 24mm

Application:

rock reinforcing underground like mining, sub-way etc

Technical data:

Properties Type	MG-16	MG-18	MG-20	MG-22	MG-24
Diametre(mm)	16	18	20	22	24
Tensile strength(Mpa)	500	500	550	550	600
Shear strength (Mpa)	110	110	110	115	120
Weigth (g/m)	300	450	600	680	920
Rod Torque (N.m)	45	50	55	60	65
anti-tensile ability of nut (kN)	80	80	80	80	90
Load ability of plate (kN)	80	80	80	80	90
Static ESD (Ω)	$\leq 10^7$				
Flame retardant property (S)	According to standart requireement ASTM-184				

Normal rebar



Available dimension:

3-32mm

Application:

- Surface strengthening of road, bridge, road, marine etc, station, water project, under-earth project etc;
- Corrosive environment like sewage project, chemical plant, manhole and coast defence project;
- Electro and magnetic environment like military engineering, confidential project and other special application

Technical Data:

Specification	Area	Tensile strength	Elastic modulus
mm	mm ²	MPa	GPa
6	28.26	805	35-41
9	63.585	745	35-41
12	113.04	675	35-41
16	200.96	640	35-41
19	283.385	610	35-41
22	379.94	576	35-41
25	490.63	530	35-41
32	803.84	515	35-41

High load rebar



Application:

high load ability for normal building application

Technical Data:

TYPE	Diameter (mm)	Tensile Strength (Mpa)	Density (g/cm ³)
UTRS-12	Φ12	910	2.0
UTRS-16	Φ16	870	2.0
UTRS-18	Φ18	820	2.0
UTRS-22	Φ22	800	2.0



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