

CARBON FIBER ROD

Product Description:

DOST Re-Bar products are bars obtained by laminating carbon, aramid and glass fiber with epoxy resin in one direction.

Application Areas:

- In the strengthening of tunnels, silos and bridges
- All kinds of factories are engaged in the strengthening of residential buildings
- In the strengthening of historical monuments
- For all kinds of industrial plant retrofits.

Features and Advantages:

- It is very light,
- Easy and fast to apply,
- It has a very high strength,
- There is no risk of corrosion
- Different elastite module options are available.

Technical Specifications:

| Features | | Rod 5 | Rod 7,5 | Rod 10 | Rod 12 | Rod 16 |
|----------------|---------------------------------------|---------|---------|--------|--------|--------|
| Carbon FRP Rod | Tensile Strength, Mpa | 2300 | 2300 | 2300 | 2300 | 2300 |
| | E-Module, Gpa | 130 | 130 | 130 | 130 | 130 |
| | Elongation of rupture, % | 1,8 | 1,8 | 1,8 | 1,8 | 1,8 |
| | Nominal Diameter, mm | 5 | 7,5 | 10 | 12 | 16 |
| | Nominal Cross-Section mm ² | 19 | 44 | 78 | 113 | 200 |
| | Tensile strength at break, KN | 44 | 101 | 179 | 260 | 460 |
| | Linear Weight, g/m | 40 | 75 | 130 | 195 | 340 |
| properties | | Rod 5,5 | Rod 7,5 | Rod 10 | | |
| Aramid FRP Rod | Tensile Strength, Mpa | 1400 | 1400 | 1400 | | |
| | E-Module, Gpa | 60 | 60 | 60 | | |
| | Elongation of rupture, % | 2,4 | 2,4 | 2,4 | | |
| | Nominal Diameter, mm | 5,5 | 7,5 | 10 | | |
| | Nominal Cross-Section mm ² | 23 | 44 | 78 | | |
| | Tensile strength at break, KN | 32 | 62 | 109 | | |
| | Linear Weight, g/m | 40 | 75 | 130 | | |
| properties | | Rod 12 | Rod 16 | Rod 20 | Rod 25 | Rod 28 |
| Glass FRP Rod | Tensile Strength, Mpa | 1000 | 1000 | 1000 | 1000 | 1000 |
| | E-Module, Gpa | 40 | 40 | 40 | 40 | 40 |
| | Elongation of rupture, % | 2,8 | 2,8 | 2,8 | 2,8 | 2,8 |
| | Nominal Diameter, mm | 12 | 16 | 20 | 25 | 28 |
| | Nominal Cross-Section mm ² | 113 | 200 | 314 | 490 | 615 |
| | Tensile strength at break, KN | 113 | 200 | 314 | 490 | 615 |
| | Linear Weight, g/m | 200 | 330 | 535 | 815 | 1022 |