

Titanium Fiber(TA1)

Production Process

Titanium fiber is a special fiber textile material with large specific surface area and good flexibility made from titanium wire through complex processes such as surface treatment, bundling, drawing, heat treatment, and electrolytic separation.



Performance Characteristics

As a new type of material, titanium fiber has both the inherent advantages of titanium metal and the characteristics of fiber materials. It is light in weight, high strength, strong in metal activity and has good corrosion resistance.

Application

Anode gas diffusion layer in PEM water electrolysis, High-performance titanium-based metal oxide electrode modified preparation materials (fuel cells), Golf club reinforcement (weight reduction) materials, aerospace equipment materials.

Technical Data

| Diameter | Filament(f) | Gram weight(g/m) | Strength | Elongation |
|----------|-------------|------------------|----------|------------|
| 8μm | 3000 | 0.60~0.72 | ≥5cN | ≥1.5% |
| 12um | 1000 | 0.47~0.54 | ≥10cN | ≥1.6% |
| 15um | 1000 | 0.74~0.85 | ≥15cN | ≥1.7% |
| 20um | 1000 | 1.31~1.51 | ≥25cN | ≥1.8% |
| 25μm | 500 | 1.03~1.18 | ≥45cN | ≥2.0% |
| 40um | 500 | 2.63~3.02 | ≥100cN | ≥3.0% |
| 50μm | 500 | 4.11~4.73 | ≥150cN | ≥4.0% |