



TITANIUM CONDUCTOR BAR

PRODUCT DATA SHEET

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Titanium conductor bar is usually be used along with the MMO ribbon anode, acting as an inert conductor to evenly distribute the CP current throughout the system.

MMO ribbon is often spot welded to titanium conductor bar at the point of crossover, forming a grid arrangement. It reduces attenuation losses and connects to the positive cable through rod connectors.

QUALITY SUBSTRATE MATERIAL

Our conductor bar is pure titanium and its chemical composition complies with ASTM B265 Grade I. It can have a life expectancy of 50 years or more.

| Element | | Content (%) |
|----------|------|-------------|
| Iron | (Fe) | 0.20 max. |
| Carbon | (C) | 0.08 max. |
| Nitrogen | (N) | 0.03 max. |
| Hydrogen | (H) | 0.015 max. |
| Oxygen | (O) | 0.18 max. |
| Titanium | (Ti) | Remainder |

DIMENSIONAL STABILITY

Thanks to its stable chemical composition, this aerospace material is mechanically strong as well as ductile. It is easy to form and install in applications where available space is restricted.

| Technical Measurement | Performance |
|----------------------------------|--|
| Coefficient of Thermal Expansion | $8.7 \times 10^{-5} / K^{-1}$ ($4.8 \times 10^{-6} / in / in / ^\circ K$) |
| Thermal Conductivity @ 20°C | 15.6 W/m ² K (9.0 BTU/hr.ft ² .°F) |
| Electrical Resistivity @ 20°C | $56 \times 10^{-6} \Omega \cdot cm$ ($22 \times 10^{-6} \Omega \cdot in$) |
| Modules of Elasticity (Min.) | 105 GPa (14,900,000 PSI) |
| Tensile Strength (Min.) | 245 MPa (35,000 PSI) |
| Yield Strength (Min.) | 175 MPa (25,000 PSI) |
| Elongation (Min.) | 24% |



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PRACTICAL APPLICATION

Our titanium conductor bar is highly resistant to corrosion in various environments. It can be utilized in sandy soil, coke, seawater, brackish water and other complex environments with the presence of oxygen evolution, chlorine evolution or a mixture of the two.



SPECIFICATIONS

| Item No. | Width | Thickness | Length (per roll) | Linear Resistance | Weight |
|----------|---------------|------------------|-------------------|-------------------------|------------------|
| YX-TB01 | 6.35mm (1/4") | 0.635mm (0.025") | 152m (500 ft.) | 0.015 Ω/m (0.005 Ω/ft.) | 3.8kg (8.4 lbs) |
| YX-TB02 | 12.7mm (1/2") | 0.9mm (0.035") | 152m (500 ft.) | 0.005 Ω/m (0.002 Ω/ft.) | 7.8kg (17.2 lbs) |

Note: All dimensions and weights shown above are nominal. The information provided is subject to change without notice.





Industrial Corrosion Control Solutions Provider

Established in 2003, YUXI has over a 20-year heritage of innovation in corrosion control science and technology. We're a spirited team of ambitious thinkers and pioneer sheeps with a common goal in mind: protect our clients' assets from corrosion with cost-saving measures.

We have the most comprehensive catalog of cathodic protection materials including anodes, transformer rectifiers, backfills, coatings, etc. Our anodes and supplies are manufactured to strict quality standards through an ISO 9001 quality management system and are guaranteed to offer excellent performance in the industry.



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