



PRODUCT DATA SHEET











YUXI CORROSION CONTROL

TITANIUM CONDUCTOR BAR

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



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 × 10 ⁻⁵ / K ⁻¹ (4.8 × 10 ⁻⁶ / in / in / °K)		
Thermal Conductivity @ 20°C	15.6 W/m°K (9.0 BTU/hr.ft².°F)		
Electrical Resistivity @ 20°C	$56 \times 10^{-6} \Omega$.cm (22 × $10^{-6} \Omega$.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.

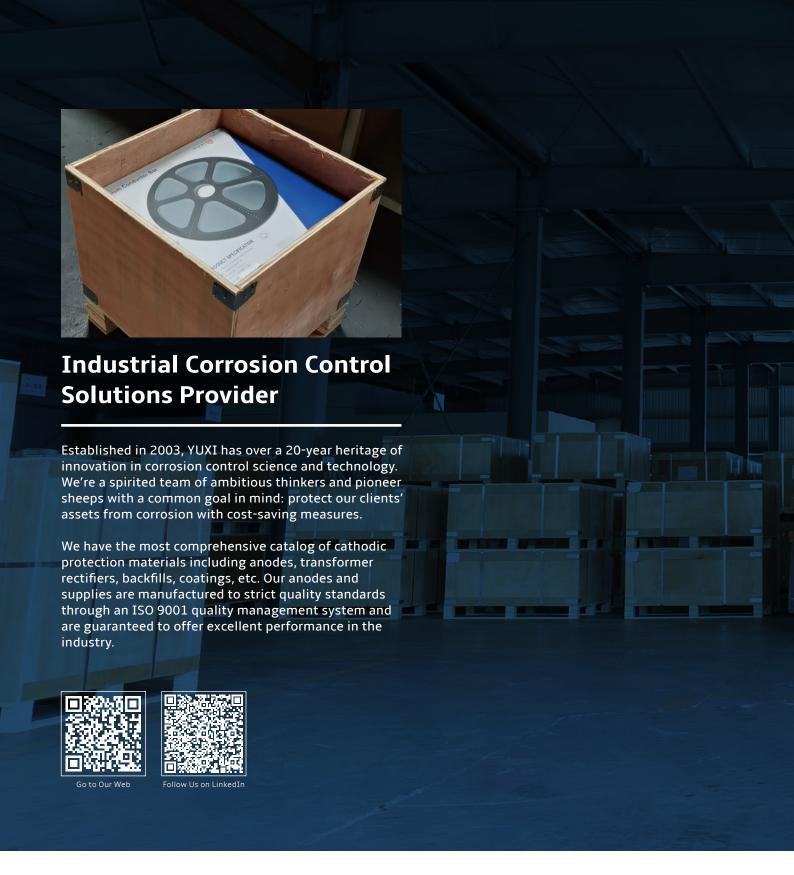


SPECIFICATIONS

Item No.	Width	Thickness	Length (per roll)	Linear Resistance	Weight
YX-TB01	6.35mm (¹ / ₄ ")	0.635mm (0.025")	152m (500 ft.)	$0.015\Omega/m$ ($0.005\Omega/ft$.)	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.







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