



MMO /Ti Linear Anode

MMO Linear Anodes consist of a long MMO/Ti wire welded multiple spots with copper cable packaged in fabric jacket full filled with calcinated coke.

YUXI Anodes produces SL Series MMO Linear Anodes using a bespoke automated encapsulating and braiding machine to make accurate coke breeze filling whilst maintaining a production capacity up to 1,000,000 meters per year.

SL Series MMO Linear Anodes has excellent performance characteristics. It can work for 50 years at recommended current densities and with its flexible and perfect wear-resisting jacket, it can be easily installed in various landforms.

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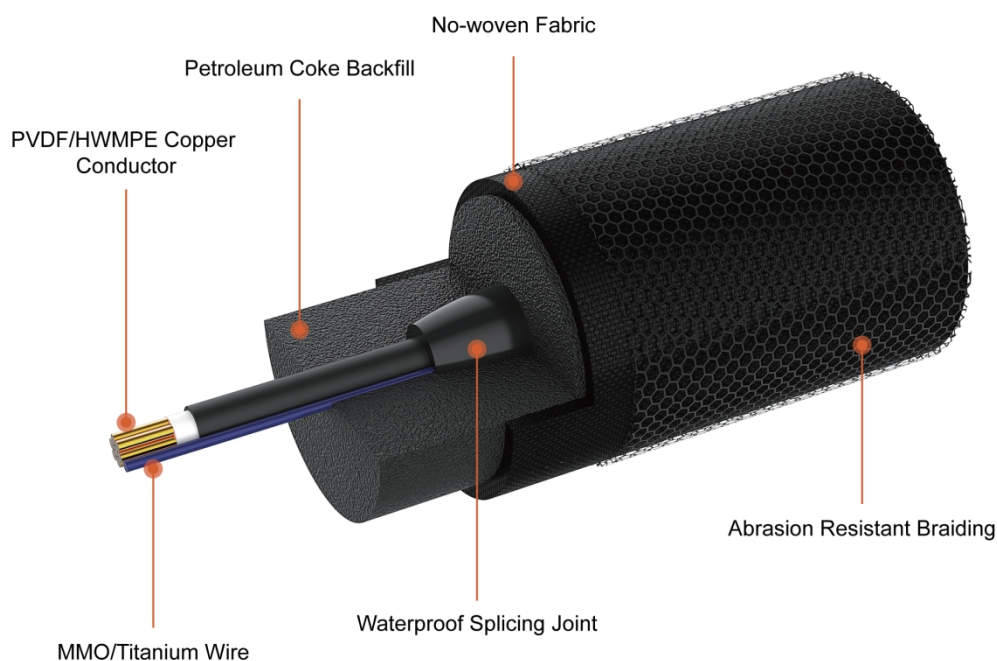
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APPLICATION

- ▶ Above and below ground storage tanks
- ▶ Conventional groundbeds
- ▶ Pipelines
- ▶ Congested plant areas

FEATURES

- ▶ Customized anode output
- ▶ Unique sintering coating technology leads to high performance (> 50 years anode life)
- ▶ Reel packing for easy transportation
- ▶ Cut to lengths or spliced to other structures
- ▶ Uniform and compact backfill filling to ensure high conductivity and radiation of CP current
- ▶ Heavy-duty copper crimp ensuring low resistance
- ▶ Bespoke splicing kit to encapsulate the connection joint to reach 100% water proof



CHEMICAL COMPOSITION

Anode	MMO Linear Anode (Sock Anode)
Substrate of	ASTM B348 Gradel/II
MMO Wire	Solid Titanium Wire
Coating	Ir-Ta Mixed Metal Oxide Catalyst
Backfill	Calcium Petroleum Coke
Cable	Copper
Jacket	Porous Non-woven Fabric

SPECIFICATIONS

Anode Model	MMO Wire Diameter	Cable Specification	Current Output Rating	Life Expectancy	Outer Diameter
YX-MMO-Super Linear100	1.5mm	#6 PVDF/HMWPE	100mA/ft (327mA/m)	≥25yrs.	38-40mm
YX-MMO-Super Linear300	3.0mm	#6 PVDF/HMWPE	300mA/ft (983mA/m)	≥25yrs.	

ELECTROCHEMICAL PROPERTIES

Property	Testing Standards	Testing Results
1.Cable Copper Conductor		
Dimension	ASTM B-263	#6 AWG (Standard)
Connection Resistance	ASTM B-193	3.08×10^{-3} Ohm.m
2.MMO Wire		
Dimension	ASTM B-348	1.0mm/2.0mm/3.0mm
Volume Resistivity	ASTM B-193	9-11 mΩ.cm
3.Coke Breeze Backfill		
Fixed Carbon	ASTM D-172	98.5% Min.
Resistivity	G.L.C.-C-12A, 10bar (145psi) @23°C (73°F)	0.1 Ω.cm
4.Cable Joint		
Resistivity	ASTM B-193	1.0 mΩ Max.
5.Fabric Jacket		
Weight	80g/m ² Min.	80g/m ²
Bursting Strength	ISO 3303	500N Min.
Abrasion Resistance	ASTM D-4157	100 Cycles to Failure
Fluid Resistance	6 Months Immersion Test	PASS
Chlorine Resistance	6 Months ImmersionTest	PASS
UV Resistance	STMG-53 8hours@60°C (140°F) 4hours@50°C (122°F)	55% Tear Strength Loss