BASENNOVA

PRODUCT DATA SHEET

Canistered MMO Tubular Anodes

The canistered MMO tubular anode is a prepackaged auxiliary anode assembly for impressed current cathodic protection (ICCP) systems. It consists of an MMO titanium tube anode core centrally positioned within a perforated canister, with the annular space densely packed with calcined petroleum coke carbonaceous backfill. By utilizing the highly conductive coke to expand the effective surface area from the small physical anode into a large virtual anode column, this design achieves low groundbed resistance and long-term operational stability with minimal excavation or borehole diameter. It is widely used in shallow vertical, deep well, and horizontal trench groundbeds for the protection of pipeline networks and storage tank bottoms.

KEY FEATURES

1.Low Groundbed Resistance with Minimal Excavation / Small Boreholes
2.Extended Service Life with Negligible Consumption
3.Safer Handling & Reduced Labor Requirements
4.Adjustable Output & Modular Groundbed Design

PRODUCT SPECIFICATIONS

Enclosure:Galvanized carbon steel threaded pipe
Core:MMO tubular anode
Coke Backfill:Calcined petroleum coke
Titanium Substrate:ASTM B338 Grade 1 or Grade 2
MMO Coating:IrO_2/Ta_2O_5 or IrO_2/RuO_2
MMO Titanium Tube OD:19 / 25 / 32 mm
Single Tube Length:500–1200 mm
Canister Outer Diameter:Φ76 / 100 / 150 / 219 mm
Overall Assembly Length:1.0 m / 1.5 m / 2.0 m / 4.0 m / 6.0 m, etc.
Output per Assembly： 2.5 A / 6 A / 8 A / 12 A
Cable： Double-insulated HMWPE/Kynar; Conductor cross-section 6–35 mm^2 (depending on design)
Service Life:≥20years

APPLICATIONS

1.Buried Long-Distance / Municipal Gas Pipelines
2.Storage Tank Bottoms (AGST / UST)
3.High Soil Resistivity Areas
4.Space-Constrained Sites

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