

MIXED METAL OXIDE ANODE

The Mixed Metal Oxide Anode (MMO Anode) is a type of Impressed Current Cathodic Protection (ICCP) anode developed through the technique of electro-active coatings on Titanium tube developed in the early 1980s.

The advantage of the MMO anodes is its low consumption rate, which is measured in terms of milligrams for ampere-year. It is able to operate efficiently in soil, fresh water and or seawater environment. The MMO coating demonstrates high chemical stability even in low PH values environment.

CP Tech is able to supply both MMO Tubular and Ribbon Anodes.

MMO TUBULAR ANODE



The general working environment for MMO tubular anode in seawater is 600A/m^2 , and in fresh water is 100A/m^2 .

Material details of MMO Tube Anode

Substrate: Titanium (ASTM B338 Grade 1)

Coating: Iridium based Mixed Metal Oxide

CP Tech is able to supply MMO tube anode according to various type of dimensions (Length of tube and its diameter size), cable type and application environment (use in soil, seawater or freshwater) required by customer.

Typical MMO Tube Available

Dimensions
$\frac{3}{4}$ x 4' (Ø19mm x 1.2m L)
1" x 1.64' (Ø25mm x 0.5m L)
1" x 3.28' (Ø25mm x 1m L)
1 $\frac{1}{4}$ " x 4' (Ø31mm x 1.2m L)

The MMO tube anode supply c/w following feature

- 10mm² or 16mm² connection cables with XLPE/PVC, HMWPE or other cable size and insulation type available upon request.
- Cable at the end of each anode is protected with Teflon sleeve.
- Each anode centre connection is tested for resistance to ensure that the resistance less than 0.001 ohms.