



Cathtect

Engineering (Pty) Ltd.

Cathodic Protection Anodes



WHAT IT TAKES

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Mixed Metal Oxide Anodes (MMO)

Mixed Metal Oxide Anodes are electrically conductive which activates the titanium tube allowing it to function as an anode. These anodes have an extremely low consumption rate; therefore the titanium substrate remains nearly constant throughout the design life of the anode. This provides a consistently low resistance anode. Mixed Metal Anodes exhibit high chemical stability even when exposed to low pH (acidic) environment and are suitable for use in chlorine- or oxygen.



Piggyback Linear Anodes

- Provides flexibility to the design engineer
- Product specification can be customised
- Parameters such as design life, current rating, wire diameter, cable size and insulation type can be specified and manufactured quickly.



Piggyback Tank Bottom Anodes

- Cathodic Protection to new and existing Tank Bottoms



Ribbon Anodes

For Use in water, fine sand and concrete

- Manufactured using titanium which meets ASTM B265 Grade 1 or 2 standards

Only applicable for use in water

- Used for various applications in fresh water, brackish water and seawater and are available in lengths of 1m and 2m

Only applicable for use in fine sand and concrete

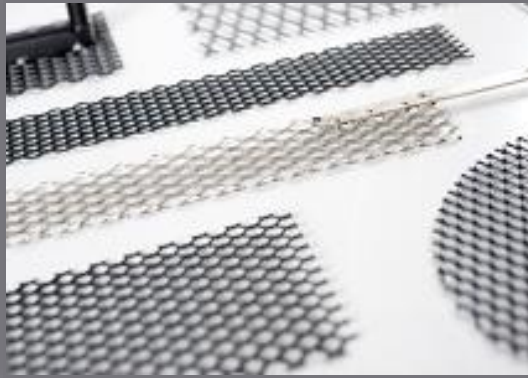
- Used in reinforced concrete structures and above ground storage tank base plates





Wire Anodes

- Manufactured using titanium which meets ASTM B338 Grade 1 or 2 standards
- Applications for MMO Wire Anodes include use in tank bottoms, tank internals, pipeline internals, canistered anodes, sock anodes, electrical cable shielding, continuous horizontal groundbeds and discontinuous horizontal groundbeds
- Available in two sizes, with two standard current ratings. Other sizes and ratings are available upon request



Mesh Strip Anodes

- Manufactured using titanium which meets ASTM B265 Grade 1 or 2 standards
- Canistered Mesh Strip Anode has been designed to replace the 3" x 60" silicon iron anodes in horizontal and shallow vertical groundbeds
- Further applications include use in above ground storage tank base plates and Cathodic Protection for the protection of concrete rebars



Tubular Anodes

- Manufactured using titanium which meets ASTM B338 Grade 1 or 2 standards
- Exhibit high chemical stability even when exposed to low pH (acidic) environment and are suitable for use in chlorine- or oxygen

Sacrificial Anodes

These High potential sacrificial anodes are made from high purity Mg metal superior to normal industrial standards. The anode produced by special casting technology, have superior electrochemical properties tested according to ASTM G97-89 standard. These anodes go through Chemical Analysis and Electrochemical testing.



7.7 kg High potential Sacrificial Anode

- 110mm diameter x 445mm length

10 kg High potential Sacrificial Anode

- 110mm diameter x 570mm length

**Any application of Zinc, Aluminium and Magnesium Anodes are available on request*

Silicon Iron Anodes

Anodes used for the positive terminal of the Cathodic Protection system and directly pass current impressed into the soil/electrolyte surrounding the pipeline or structure. This Anode type has excellent resistance to corrosion.



Silicon Iron Anodes

- Can withstand drop impact tests to more than twice the height of sand cast anodes
- Prevents hang-up when lowering into drilled holes
- Yield more ampere-years per pound than sand cast anodes



Grounding Rods

- Silicone Ground Rods
- Small Anodes
- Solid Stick Anodes

Ribbon Anodes

These Ribbon Anodes come in Zinc and Magnesium and can be used in fresh water, seawater environments and also underground structures. These Anodes are highly cost effective and are used to control erosion on buried and immersed metals.



Zinc Ribbon Anodes

- Zinc Ribbon Anodes per ASTM B4818-95a Type ii Alloy standard in the shape of a diamond
- Can be used in fresh water, seawater environments and also in underground structures

Zinc

- Cath 01 : 25,4mm x 3 1,75mm 3,57 kg/m 4,7mm wire core $\pm$ 30m per coil length
- Cath 02 : 15,8mm x 22,22mm 1,785 kg/m 3,43mm wire core $\pm$ 61m per coil length
- Cath 03 : 12,7mm x 14,28mm 0,893 kg/m 3,3mm wire core $\pm$ 152m per coil length
- Cath 04 : 8,73mm x 11,92 mm 0,372 kg/m 2,92mm wire core $\pm$ 305m per coil length

Magnesium Extruded Ribbon Anodes

- Magnesium Extruded Ribbon Anodes per ASTM G97-89
- Dimensions: 9,5mm x 19,05mm (3,175mm corner) core diameter 3,429mm

Magnesium

- 9,5mm x 19,05mm (3,175mm corner) core diameter 3,429mm