



EPSIPL's Electrodes division has been a pioneer in the field of Electrodes & Metal Anodes Manufacturing since 1982.

The Dimensional stability of these Metal Anodes coupled with possibility of reticulated geometry enables ready gas disengagements from the active surface thus drastically reducing cell voltage and faradic efficiency losses caused by bubble effect.

These anodes can be used to advantage in aggressive solutions or other difficult applications

The manufacturing route of MMO coated anodes varies depending on the composition of the electro catalytic layer. In general the route involves multiple application by thermal decomposition of mixtures of noble metals as their oxides. A variety of shapes and forms are available including Tubular, Bar, Rod, Sheet, Wire, Disc and Mesh. Individually fabricated anodes are available to suit customers specific requirements.

MMO coatings can be specifically formulated to withstand the simultaneous generation of oxygen and chlorine, which occurs in dilute sea water or fresh water containing low chloride levels. MMO coated anodes are also durable in highly acidic media and are often used in deep well ground beds.

Anodes with mixed metal oxide(MMO) coating mostly consist of the base material titanium or niobium onto which precious metal oxides of the platinum metals group with other valve metals are applied. Usually iridium mixed oxide coatings are used for chloride-free electrolytes, whereas ruthenium or iridium/ruthenium mixed oxide coatings are used for the production of chlorine and hypochlorite.

Manufacturing Range

Box type, Rod type, Wire type, Ring type, Plate type, Mesh type, Louver type, Ribbon type, Tubular type, Runner type, Any other geometry.

Application Range

Lodate cells, Bromate cells, Chlorate cells, Electroplating, Electrodialysis, Electrowinning, Chlor alkali cells, Sewage treatment, Electro galvanising, Electro chlorination, Cathodic protection, Chlorine dioxide cells, Heavy metal recovery.



Corrosion Specialist

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