

Anodes and Reference Electrodes

External Cathodic Corrosion Protection

Metakem supplies insoluble anodes of titanium and niobium with platinum and mixed oxide coatings in a full range of shapes and dimensions according to customer drawings: sheet, plate, rod, tube, wire, or mesh anodes and anodes of welded constructions.

Fixed and exchangeably mounted anodes and reference electrodes in PVC-housings for installation on concrete and steel walls.

Magnesium, zinc and silver / silverchloride reference electrodes exchangeably mounted to a separate cable contact.

Internal Cathodic Corrosion Protection

Metakem supplies different **threaded connectors** mounted in welding sockets to penetrate walls of tanks and pipes from outside out of

- steel / zinc plated or stainless steels with a 1" BSP thread for rod anodes of diameter 12 mm (pressures up to 120 bars at 60 °C) or
- polypropylene with a 1 / 2 " BSP thread for rods of diameters up to 12 mm (pressures up to 10 bars at 40 °C).
- For thicker rod anodes with diameters of 16 and 20 mm, which are necessary for increased flow rates, connectors with 1 1/4 " or M 42x1,5 thread are also available.

Reference electrodes of zinc, magnesium or silver / silverchloride exchangeably mounted on connectors with all mentioned threads.

Threaded wire connectors out of steel or stainless steels for stretching wire anodes in tanks. When applying this mounting mode it is often necessary to feed in the current from both sides. If this is not necessary an **insulated fixing point**, screwed in a socket on the inside of the tank, may be sufficient as one wire support.

Reference Electrodes for Anodic Corrosion Protection

Application range: installations for concentrated sulfuric and phosphoric acid and also potassium and sodium hydroxide (stationary installations and installations on ships). The reference electrodes are out of stainless steel (German material

No.1.4571) and have a 1 " BSP thread for connection.

Gold and platinum group metal chemistry

- Salts, compounds and solutions
- Gold and PGM electroplating baths
- PGM coated parts

Insoluble Anodes

- Titanium and niobium parts
- Customized anodes
- Special base metals and activations

Shaped Material

- Platinum and platinum/rhodium alloys

Passed to you by:

METAKEM

Precious metal technology

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