

METAKEM MOX-Anodes

Anode solutions for a sustainable future

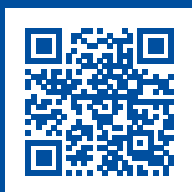


Anodes

METAKEM MOX-Anodes

Specifications

Carrier metals:	Titanium
Material:	Grade 1 (DIN 3.7025) Grade 2 (DIN 3.7035)
Anode body made of:	Expanded metal, sheet metal, tubing, rod, wire, 3D materials (e.g. Ti felt etc.)
Size and construction:	According to customer requirements
Precious metal load:	6 – 40 g / m ²
Layer types:	Ir-mixed oxide / Ru-mixed oxide / Ir-Ru-mixed oxide
Coating by means of:	Thermal conversion of precious metal and valve metal compounds to oxides
Anodic current density:	≤ 100 A / dm ²
Application as:	Anode and bipolar electrode, also in pulsed mode
pH value:	0 – 11 recommended
Bath temperature:	≤ 60 °C recommended



Request product:

→ metakem.de/en/request

Anodes with MMO activation have titanium carriers and are activated with oxides from the platinum group (Ir, Ru, Pt), in a mixture with oxides of the valve metals.

MMO layers with iridium are used for chloride-free electrolytes and MMO layers with ruthenium or iridium/ruthenium are used to generate chlorine and hypochlorite.

In the case of high current density or temporary polarity reversal of the anode, additional metallic or ceramic intermediate layers improve the service life of the MMO layer.

METAKEM MOX-Anodes have the same characteristics as anodes made of PtTi and PtNb, but also offer additional advantages such as:

- ♦ Can also be used as an anode in reverse polarity operation
- ♦ Low overvoltage against chlorine and oxygen generation
- ♦ Long service life in baths with cyanide
- ♦ Possibility of reactivation

The **METAKEM MOX-Anode** made of expanded metal is the preferred choice for good current distribution on the cathode. Expanded metal ensures a high scattering power, good electrolyte exchange, and a compact design with low weight.

Expanded metal types:

METAKEM offers various mesh sizes for TI expanded metals, see our [Overview of Expanded metal types](#).