

TECHNICAL DATA SHEET: TELPRO.13

MIXED METAL OXIDE ACTIVATED TITANIUM WIRE SOCK ANODES

Activation: Noble Mixed Metal Oxides consisting of IrO₂ and Ta₂O₅

Substrate Material: Titanium to ASTM Grade 1 or 2

Working Environment: Evolution of O₂, Cl₂ or a combination of both

Dimensions of Sock Anode:

Diameter of Cotton Sock	50mm
Backfill Material	99% Carbon, calcined petroleum coke with particle size less than 1mm
Dimension of Ti Wire	1.5mm dia or 3mm dia
Current Output of Sock Anode	1.5mm dia Ti Wire – 0.5A/m; 3.0mm dia Ti Wire – 1A/m
Sock Lengths	From 1m to 50m

Header Cable: Typically 10mm² or 16mm² XLPE/PVC connected to the MMO/Ti wire anode every 10m, header cable or spacing between connections can be adjusted to suit the particular soil resistivity of operation

Cable Tail: a cable tail, typically of 1m to 5m can be provided at one end or both ends of the Sock Anode to allow connection to the powerfeed from the TR

Weight of Sock: around 3kgs per m excluding packing

Nominal Design Life: Typically 20 years when operating at an anode current density of 100A/m² – coating loading can be adjusted for any combination of current output and design life.