



# Mixed Metal Oxide Anode Data Sheet

## GENERAL

These anodes belong to new generation of impressed current anodes so called DSA (dimensionally stable anode). A thin semi-conductive layer of mixed metal oxide is deposited on titanium substrate to produce these anodes. The main advantages of these anodes are :

- 1-higher current output
- 2-lower weight and installation cost
- 3-constant dimension and constant resistant during its life time
- 4-controlled life time with different coating loading
- 5- higher life time
- 6-Resistant to low pH and high chlorine gas generally produced in cathodic protection GB.

Care should be taken to select rectifier output voltage and environment condition which affect the substrate and coating type.

**Standard**

IPS-M-TP-750

## COATING TYPES

	$\text{IrO}_2 / \text{RuO}_2 / \text{TiO}_2$	Suitable for use in seawater where $\text{Cl}_2$ is the principal anode product
<input checked="" type="checkbox"/>	$\text{IrO}_2 / \text{Ta}_2\text{O}_5$	<b>Suitable for use in soils, backfill, fresh and brackish waters and seawater where <math>\text{O}_2</math>, <math>\text{Cl}_2</math> or a combination of both are discharged at the anode</b>

## CURRENT DENSITY

Environment	Current density(max)
Soil	50 (A/m <sup>2</sup> )
Carbonaceous Backfill	100 (A/m <sup>2</sup> )
Fresh Water	100 (A/m <sup>2</sup> )
Brackish Water	100 to 300 (A/m <sup>2</sup> )
<input checked="" type="checkbox"/> Sea Water	<b>600 (A/m<sup>2</sup>)</b>





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### TECHNICAL SPECIFICATION

Shape	Dimension Dia.×Lenght (mm×mm)		Output Current (in Soil) (A)	Life Time (Years)	Remark
Tubular	<input checked="" type="checkbox"/>	25	500	4	Center wedge connection, Resin filled & plastic caps
		25	750	6	
		25	1000	8	
		32	1200	12	

Cable Size	Cable length (m)	Cable Type		Connection	
1×10	42		PVC/PVC	<input checked="" type="checkbox"/>	Single
			XLPE/PVC		Stringed
		<input checked="" type="checkbox"/>	HMWPE/PVDF		

