



# MIXED METAL OXIDE RIBBON MESH CANISTER ANODES



REVISION 1

## APPLICATION

Horizontal Groundbeds, Shallow Vertical Groundbeds.

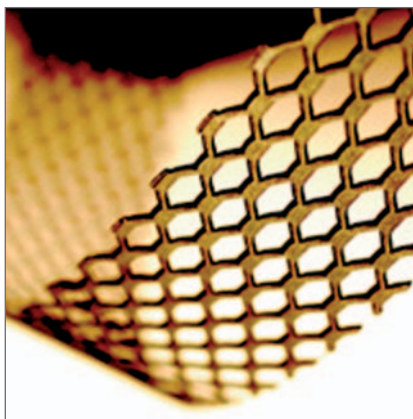
## STANDARD ANODE TYPES, DIMENSIONS AND OUTPUTS

MESH STRIP ANODES are manufactured using titanium expanded mesh substrate, which meets ASTM B265 Grade 1 or 2 standards

MESH STRIP ANODES are 1.25" wide x 48" long and are rated 5 Amps for a 20 year design life in calcined petroleum coke. The MESH STRIP ANODE can be packaged in a spiral wound, galvanized steel canister or a fabric sleeve.

Anode size and rating is calculated as follows,

- Max Operating current density of anode =  $100A/m^2$
- Titanium Surface Area of 1.25" (32mm) Width x 48" (1220mm) Length Strip Mesh Anode =  $0.05m^2$
- Titanium is coated with a proprietary MMO coating with a sufficient loading to last a minimum of 20 years at the specified current density.
- Surface area of anode is  $0.05m^2$  and at current density of  $100mA/m^2$  gives output 5A for minimum 20 years (or equivalent of 100 Amp/years at max current density of  $100A/m^2$ )



## CABLE TYPES & CONNECTIONS

Anodes are factory assembled with a fully encapsulated cable connection.

Method of Connection : A stud bolt is passed through the mesh onto which a suitably sized cable lug is placed and then tightened with nuts and steel washers to create an electrical connection between mesh anode and cable. Electrical resistance test performed : Maximum connection resistance of 0.001 Ohm

Connection encapsulated with heat shrink sleeve



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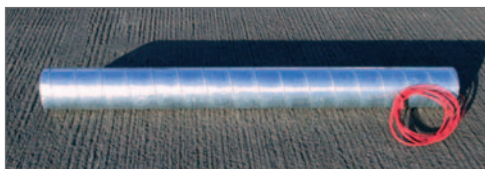
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### CABLE TYPES & CONNECTIONS

Standard Cable types included HMWPE, XLPE/PVC, PVDF/HMWPE, When ordering please specify cable type, length and size (mm<sup>2</sup>)



### CANNISTER TYPES AND DIMENSIONS



Standard Sizes	Standard Gauges
150mmDia x 1500mm L	1.0mm 20bg
150mmDia x 2000mm L	1.2mm 18bg
200mmDia x 2000mm L	1.2mm 18bg
250mmDia x 2000mm L	1.5mm 18bg
300mmDia x 2000mm L	2.0mm 14bg