

# Titanium-MMO Mesh Ribbon Anodes

Titanium expanded net MMO activated, used as insoluble anode in Impressed Current Cathodic Protection of large concrete surfaces.

Supplied in coils, standard length 51 mt, width 10 to 35 mm (see table).



*Mesh Ribbon Anode*

## Specifications

FORMAT: MESH RIBBON	<i>Material :</i> <u>TITANIUM ASTM B 265 grade 1</u>					
PRE-COATING TREATMENT	Degreasing					
	Etching					
	Protective underlayer formation					
COATING	<i>MMO ( thermally formed )</i>	Multilayer Tantalum/Iridium mixed oxides				
COATING QUALITY TESTS	<i>Iridium load measurement</i>	Instrument: X Ray Analyser NITON XL2 800				
	<i>Adhesion test</i>	Adhesion test ASTM D 3359 - 09 e2				
	<i>Electrochemical tests</i>	NACE TM 0294 - 2016 Part A external NACE TM 0294 - 2016 Part B accelerated				
DIMENSIONS	<i>Thickness</i>	0,6 mm				
	<i>Expand. Mesh Diamond</i>	4,54 x 2,53 x 0,75 mm				
	<i>Expanded Thickness</i>	1,32 mm				
	<i>Standard Mesh Coil Length</i>	51 mt				
	<i>Mesh Ribbon Width</i>	<b>10 mm</b>	<b>13 mm</b>	<b>15 mm</b>	<b>20 mm</b>	<b>25 mm</b>
	<i>Mesh Coil Weight</i>	0,7 kg	0,9 kg	1,1 kg	1,4 kg	1,75 kg
PROPERTIES	<i>Resistance</i>	0,470 Ω/mt	0,362 Ω/mt	0,350 Ω/mt	0,235 Ω/mt	0,188 Ω/mt
MAX CURRENT OUTPUT / METER	<i>design life = 50 y</i>	3,0 mA/mt	3,8 mA/mt	4,1 mA/mt	5,7 mA/mt	7,0 mA/mt
	<i>design life = 100 y</i>	2,7 mA/mt	3,5 mA/mt	3,9 mA/mt	5,3 mA/mt	5,8 mA/mt

**Note:** According to FHWA limit spec. 110 mA/m<sup>2</sup> of concrete surface area - short term limit 220 mA/m<sup>2</sup>.

### Telemagnetica S.r.l.

Via Teocrito, 36 - 20128 Milano

Tel. 02.255.29.00 - Fax 02.255.30.97

[info@telemagnetica.com](mailto:info@telemagnetica.com) - [www.telemagnetica.com](http://www.telemagnetica.com)