

# RIBBON ANODES

## FOR USE IN FINE SAND

NMT® Electrodes Ribbon Anodes are manufactured using titanium which meets ASTM B265 Grade 1 or 2 standards.

NMT® Electrodes' Mixed Metal Oxide coatings are electrically conductive which activates the titanium rod allowing it to function as an anode.

NMT® Electrodes Mixed Metal Oxide Ribbon Anodes have an extremely low consumption rate; therefore, the titanium substrate remains nearly constant throughout the design life of the anode. This provides a consistently low resistance anode.

NMT® Electrodes Mixed Metal Oxide Anodes exhibit high chemical stability even when exposed to low pH (acidic) environments and are suitable for use in chlorine- or oxygen-evolving electrolytes or a combination of both.

NMT® Electrodes Mixed Metal Oxide Ribbon Anodes are used for various applications including use in reinforced concrete structures and above ground storage tank base plates.

### ADVANTAGES

- Dimensionally stable

### NOMINAL DIMENSIONS OF SOLID RIBBON

	(1)	(2)
Width	6.35 mm	12.7 mm
Thickness	0.635 mm	0.5 mm -0.6 mm
Std. Coil Length	76.22 m	76.22 m
Std. Coil Weight	1.36 kg	2.72 kg
Surface Area of Ribbon	0.014 m <sup>2</sup> /m	0.0264 m <sup>2</sup> /m

### TITANIUM CONDUCTOR BAR DIMENSIONS

Width	12.7 mm
Thickness	0.9 mm
Coil Length	76.22 m
Coil Weight	3.8 kg

### OPERATING CONDITIONS

	Current output (per m)	Current density	Lifespan
Fine Sand (1)	42 mA	3 A/m <sup>2</sup>	50 years
Fine Sand (2)	76.2 mA	3 A/m <sup>2</sup>	50 years



# RIBBON ANODES

## FOR USE IN WATER

NMT® Electrodes Ribbon Anodes are manufactured using titanium which meets ASTM B265 Grade 1 or 2 standards.

NMT® Electrodes' Mixed Metal Oxide coatings are electrically conductive which activates the titanium rod allowing it to function as an anode.

NMT® Electrodes Mixed Metal Oxide Ribbon Anodes have an extremely low consumption rate; therefore, the titanium substrate remains nearly constant throughout the design life of the anode. This provides a consistently low resistance anode.

NMT® Electrodes Mixed Metal Oxide Anodes exhibit high chemical stability even when exposed to low pH (acidic) environments and are suitable for use in chlorine- or oxygen-evolving electrolytes or a combination of both.

NMT® Electrodes Mixed Metal Oxide Ribbon Anodes are used for various applications in fresh water, brackish water and seawater and are available in lengths of 1 m and 2 m.

### ADVANTAGES

- Dimensionally stable

### NOMINAL DIMENSIONS OF SOLID RIBBON

Width	6.35 mm	12.7 mm
Thickness	0.635 mm	0.5 mm -0.6 mm
Std. Coil Length	76.22 m	76.22 m
Std. Coil Weight	1.12 kg	3.9 kg
Surface Area of Ribbon	0.014 m <sup>2</sup> /m	0.0254 m <sup>2</sup> /m

### TITANIUM CONDUCTOR BAR DIMENSIONS

Width	12.7 mm
Thickness	0.9 mm
Coil Length	76.22 m
Coil Weight	3.8 kg

### OPERATING CONDITIONS

Ribbon anode length	1 m	2 m
Max. Current Output	5.6 A	11.1 A

### NOTES:

- Coating loading is able to be increased or decreased depending on the life and current density requirements stipulated by the client
- The current density should be determined in accordance with fresh water resistivity.



# SAWTOOTH RIBBON ANODES

## FOR USE IN CONCRETE

NMT® Electrodes Sawtooth Ribbon Anodes are manufactured using titanium which meets ASTM B265 Grade 1 or 2 standards.

NMT® Electrodes' Mixed Metal Oxide coatings are electrically conductive which activates the titanium rod allowing it to function as an anode.

NMT® Electrodes Mixed Metal Oxide Sawtooth Ribbon Anodes have an extremely low consumption rate; therefore, the titanium substrate remains nearly constant throughout the design life of the anode. This provides a consistently low resistance anode.

NMT® Electrodes Mixed Metal Oxide Anodes exhibit high chemical stability even when exposed to low pH (acidic) environments and are suitable for use in chlorine- or oxygen-evolving electrolytes or a combination of both.

NMT® Electrodes Mixed Metal Oxide Sawtooth Ribbon Anodes are used for various applications including use in reinforced concrete structures and above ground storage tank base plates.

### ADVANTAGES

- Dimensionally stable

### NOMINAL DIMENSIONS OF SOLID RIBBON

	(1)	(2)
Width	6.35 mm	12.7 mm
Thickness	0.635 mm	0.5 mm - 0.6 mm
Std. Coil Length	76.22 m	76.22 m
Std. Coil Weight	1.36 kg	2.72 kg
Surface Area of Ribbon	0.0287 m <sup>2</sup> /m	0.0573 m <sup>2</sup> /m

### TITANIUM CONDUCTOR BAR DIMENSIONS

Width	12.7 mm
Thickness	0.9 mm
Coil Length	76.22 m
Coil Weight	3.8 kg

### OPERATING CONDITIONS

	Current output (per m)	Current density	Lifespan
Concrete (1)	3.15mA	110 mA/m <sup>2</sup>	50 years
Concrete (2)	6.3 mA	110 mA/m <sup>2</sup>	50 years

### NOTES:

- Coating loading is able to be increased or decreased depending on the life and current density requirements stipulated by the client
- The current density should be determined in accordance with fresh water resistivity.

