



CORROSION CONTROL

## Technical Datasheet

### BAC MMO RIBBON

For Use In Fine Sand For Cathodic Protection Of Tank Bases



Activation: Noble mixed metal oxides consisting of  $\text{IrO}_2$  and  $\text{Ta}_2\text{O}_5$ .

Substrate material: Titanium to ASTM 265 Grade 1

Working environment: Evolution of  $\text{O}_2$ ,  $\text{Cl}_2$  or a combination of both

Nominal dimensions of solid ribbon:

- Width: 6.35 mm
- Thickness: 0.635 mm
- Standard coil length: 100 m
- Standard coil weight: 1.51 kg
- Surface area of ribbon:  $0.014 \text{ m}^2$  per linear metre

Current output of ribbon: 42 mA per linear metre maximum when operating at an anode current density of  $3 \text{ A/m}^2$ .

Design life: In excess of 50 years when operating at an anode current density of  $3 \text{ A/m}^2$ .

#### Conductor Bar

Conductor bar material: titanium to ASTM 265 Grade 1

Nominal dimensions of solid ribbon:

- Width: 12.7 mm
- Thickness: 0.9 mm
- Standard Coil Length: 100 m
- Standard Coil Weight: 5.12 kg



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### Anode Grid Power Feed Connectors

Anode grid power feed connectors comprise 12.7 mm wide x 0.9 mm thick x 100 mm long titanium strip welded to a 3 mm diameter x 100 mm long titanium wire. Encapsulation to the DC cable is by splice kit.

### Resistance Spot Welder

The resistance spot welder shall be used in order to weld the titanium conductor bar to the MMO coated anode ribbon. A water cooler will need to be supplied that may or may not need to be used depending on the production rate of the welding.

The operating parameters are listed below:

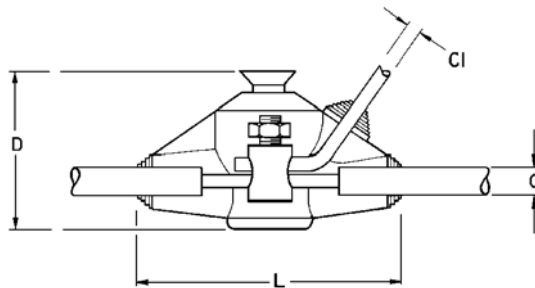
Output:	6550 amps maximum welding current provides welding thickness versatility.
Water cooled arms:	Allows use in medium production environment.
Production duty transformer:	Providing 6 kVA @ 50% duty cycle.
2mm plate welding capability:	At a rate of 450 spots per hour for 2+2 sheet mild steel.
Welding speed:	Will weld 1.2mm sheet mild steel (1.2 + 1.2) at a rate of 1000 spots per hour.

### Splice Kits

YCP type of splice kit contains:

- Casting mould made from impact resistant polycarbonate
- Hydrolysis resistant polyurethane resin and hardener
- Funnel cap
- Sealing tape

### YCP TYPE



Type	L (mm)	D (mm)
YCP	130	73

C (mm)		C <sup>1</sup> (mm)	
Min	Max	Min	Max
11	25	7	21