

**Description**

ElectroTechCP™ *durAmmo* is a long-life reference electrode which can be embedded in concrete and used to control the cathodic protection of the reinforcing steel. The potential of the ElectroTechCP™ *durAmmo* is relatively independent of changes in the chemical properties of concrete, so it can be used in wet or dry environments with or without chloride. The *durAmmo* is designed so that it can withstand substantial current drainage. This makes it particularly suitable for uses with automated monitoring systems where the potential is being assessed on a frequent basis. The ElectroTechCP™ *durAmmo* is not a true half cell, but in common with platinum electrodes, displays a stability of potential due its ongoing nobility in various environments. Potential is + 110mV relative to a copper sulfate electrode.

**Temperature Range**

0 to 40°C. Below this temperature the concrete electrolyte starts to freeze which significantly affects recorded potentials.

**Service Life**

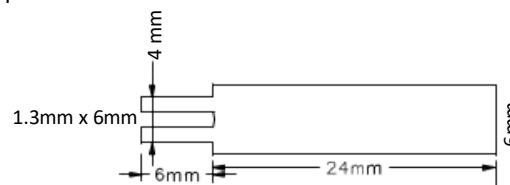
The *durAmmo* is extremely durable and with both a current discharge capacity and a coated titanium wire which can sustain damage and still work reliably. Over 100 years of service can be anticipated.

**SPECIFICATION FOR ROD**

|                      |                  |
|----------------------|------------------|
| Nominal rod diameter | 6 mm             |
| Nominal length       | 30mm             |
| Composition          | ASTM 265 grade 1 |

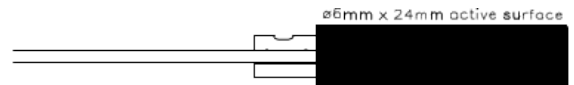
|          |              |
|----------|--------------|
| Analysis | Fe max 0.20% |
|          | O max 0.18%  |
|          | N max 0.03%  |
|          | C max 0.10%  |
|          | H max 0.015% |

|                     |   |
|---------------------|---|
| Coating composition | Balance of titanium   |
|                     | MMO (mixed metal oxide). This is an iridium oxide/tantalum oxide-based coating. |



**SPECIFICATION FOR TITANIUM COATED WIRE**

|                  |                           |
|------------------|---------------------------|
| Nominal diameter | 1.2 mm                    |
| Composition      | ASTM B348 grade 2         |
| Analysis         | Fe max 0.30%              |
|                  | O max 0.25%               |
|                  | N max 0.03%               |
|                  | C max 0.10%               |
|                  | H max 0.015%              |
| Resistance       | Balance of titanium       |
|                  | 0.47 ohm per linear meter |



Insulation

|                           |               |
|---------------------------|---------------|
| Coating type              | PolyPropylene |
| Nominal coating thickness | 0.5mm         |
| Color                     | blue          |
| Nominal wire diameter     | 2.2-2.3 mm    |

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