**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 use 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%  
f max 0.10%  
h max 0.015%  
Balance of titanium  
Coating composition 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%  
f max 0.10%  
h max 0.015%  
Balance of titanium  
Resistance 0.47 ohm per linear meter  
Insulation  
PolyPropylene  
Nominal coating thickness 0.5mm  
Color blue  
Nominal wire diameter 2.2-2.3 mm

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