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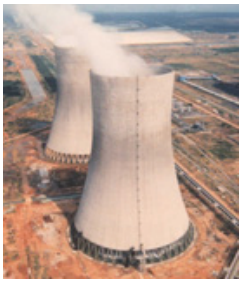
TYPE WE10
EMBEDDABLE REFERENCE ELECTRODE FOR USE IN CONCRETE



Silver/Silver Chloride elements in all SILVION electrodes are manufactured using an advanced technique which results in a porous silver matrix being formed around a silver wire skeleton. The matrix is then coated with precise quantities of Silver/Chloride to ensure:

1). HIGH STABILITY
2). GREATER ACCURACY
3). INCREASED LIFE PERFORMANCE.

For embeddable electrodes we ensure that the predetermined chloride ion concentration around the element is maintained by using an inert electrolyte compatible with the silver/silver chloride element. Ionic continuity to the environment is via a micro-porous sintered disc

OUTER CASING

MATERIAL	ACETAL
LENGTH	60mm
DIAMETER	18mm
SINTERED DISC DIAMETER	15mm

SILVER CHLORIDE ELEMENT

LENGTH	15mm (+/- 2mm)
DIAMETER	6mm
GEOMETRIC SURFACE AREA	3cm^2
REAL SURFACE AREA	100cm^2
MATERIALS	SILVER COMPOUNDS ARE 99.90% PURE
ELECTROLYTE	INERT SOLID ELECTROLYTE WITH 0.5 MOLAR KCl

PERFORMANCE DATA

SHORT CIRCUIT CURRENT (< 1 MIN)	2 mA
STABILITY (POTENTIAL DRIFT AT CONSTANT TEMP AND ENVIRONMENT)	+/- 5mV (24Hrs) @ 5 micro Amp load
ACCURACY (Vs SCE IN 3% NaCl @ 20^{0}C).....	-5mV +/- 5mV
TEMPERATURE COEFFICIENT.....	-0.65mV/Deg C
LIFE IN CONCRETE	20 YEARS (THEORETICAL)
TEMP RANGE	-5 to 70^{0}C

QA/QC
All our electrodes are fully tested, calibrated and supplied complete with a calibration certificate. They are individually identified with a unique number to ensure full traceability.
All dimensions +/-1mm unless otherwise stated

The information provided in this document was accurate at the time it was published, however, we reserve the right to revise this document without prior warning