PERMANENT SILVER / SILVER CHLORIDE REFERENCE ELECTRODE FOR CONCRETE – WE10

The silver/silver chloride (Ag/AgCl) elements in all electrodes are manufactured using a "unique" and advanced technique that results in a porous silver matrix. The matrix is then coated with precise quantities of silver/chloride to ensure:

- 1). High Reliability;
- 2). High Stability;
- 3). Greater Accuracy;
- 4). Increased Life Performance.

NOTE:

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

| OUTER CASING | |
|---|--|
| MATERIAL : | Acetal body with porous ceramic sintered disc and nylon cable gland |
| DIMENSIONS: | Length: 62mm (84mm w/ gland); Diameter: 18mm |
| CERAMIC CYLINDER DIAMETER: | 15mm |
| WEIGHT (W/O CABLE): | 22g |
| SILVER CHLORIDE ELEMENT | |
| MATERIALS: | Silver compounds are 99.90% pure |
| DIMENSIONS: Length: | Length: 15mm (+/- 2mm); Section: 6mm |
| SURFACE AREA: : | Geometric: 3cm2 ; Real: 100cm2 |
| ELECTROLYTE: | Inert electrolyte with 0.5 Molar KCI |
| PERFORMANCE DATA | * |
| STABILITY (POTENTIAL DRIFT AT CONSTANT TEMP AND ENVIRONMENT) : | +/- 5mV (24 Hrs) @ 5μA load |
| ACCURACY (Vs SCE IN 3% NaCl @20oC): | -5mV +/-5mV |
| TEMP COEFFICIENT: | -0.65V/ oC |
| TEMP RANGE: | -5 to 70oC |
| INTERNAL RESISTANCE: | Less than 500 Ohms |
| THEORETICAL DESIGN LIFE : | 20 years @ 0.1 µA load |





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PERMANENT SILVER / SILVER CHLORIDE REFERENCE ELECTRODE FOR CONCRETE – WE50

The silver/silver chloride (Ag/AgCl) elements in all electrodes are manufactured using a "unique" and advanced technique that results in a porous silver matrix. The matrix is then coated with precise quantities of silver/chloride to ensure:

- 1). High Reliability;
- 2). High Stability;
- 3). Greater Accuracy;
- 4). Increased Life Performance.

NOTE:

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

| OUTER MODEL CASING | |
|---|---|
| MATERIAL: | Acetal body with porous ceramic sintered disc and |
| | nylon cable gland |
| DIMENSIONS: | Length: 82mm (104mm w/ gland); Diameter: 20mm |
| CERAMIC CYLINDER DIAMETER: | 15mm |
| WEIGHT (W/O CABLE): | 33g |
| SILVER CHLORIDE ELEMENT | |
| MATERIALS: | Silver compounds are 99.90% pure |
| DIMENSIONS: Length: | Length: 20mm (+/- 2mm); Section: 6mm |
| SURFACE AREA: : | Geometric: 4cm2 ; Real: 100cm2 |
| ELECTROLYTE: | Inert electrolyte with 0.5 Molar KCI |
| PERFORMANCE DATA | |
| STABILITY (POTENTIAL DRIFT AT CONSTANT TEMP AND | +/- 5mV (24 Hrs) @ 5µA load |
| ENVIRONMENT) : | |
| ACCURACY (Vs SCE IN 3% NaCl @20oC): | -5mV +/-5mV |
| TEMP COEFFICIENT: | -0.65V/ oC |
| TEMP RANGE: | -5 to 70oC |
| INTERNAL RESISTANCE: | Less than 500 Ohms |
| THEORETICAL DESIGN LIFE : | 25 years @ 0.1 μA load |





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PERMANENT SILVER / SILVER CHLORIDE REFERENCE ELECTRODE FOR CONCRETE - WE100

The silver/silver chloride (Ag/AgCl) elements in all electrodes are manufactured using a "unique" and advanced technique that results in a porous silver matrix. The matrix is then coated with precise quantities of silver/chloride to ensure:

- 1). High Reliability;
- 2). High Stability;
- 3). Greater Accuracy;
- 4). Increased Life Performance.

NOTE:

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

| OUTER MODEL CASING | |
|---|---|
| MATERIAL : | Acetal body with porous ceramic sintered disc and nylon |
| | cable gland |
| DIMENSIONS: | Length: 110mm (133mm w/ gland); Diameter: 22mm |
| CERAMIC CYLINDER DIAMETER: | 20mm |
| WEIGHT (W/O CABLE): | 70g |
| SILVER CHLORIDE ELEMENT | |
| MATERIALS: | Silver compounds are 99.90% pure |
| DIMENSIONS: Length: | Length: 50mm (+/- 2mm); Section: 5mm x 5mm |
| SURFACE AREA: : | Geometric: 10cm2 ; Real: 500cm2 |
| ELECTROLYTE: | Inert electrolyte with 0.5 Molar KCI |
| PERFORMANCE DATA | |
| STABILITY (POTENTIAL DRIFT AT CONSTANT TEMP AND | +/- 1mV (24 Hrs) @ 5µA load |
| ENVIRONMENT) : | |
| ACCURACY (Vs SCE IN 3% NaCI @20oC): | -5mV +/-5mV |
| TEMP COEFFICIENT: | -0.65V/ oC |
| TEMP RANGE: | -5 to 70oC |
| INTERNAL RESISTANCE: | Less than 500 Ohms |
| THEORETICAL DESIGN LIFE : | 30 years @ 0.1 µA load |





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