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|-----------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------|------------------------------------------------------------|---------------------------------------------------|------------------------------------------|
|  |                                              | <b>DATA SHEET</b><br>Reference Electrode |                                                            | DOC NO.:                                          | 4-CH-06                                  |
| Standard:                                                                         |                                              | BS 7361                                  |                                                            | TITLE:                                            | Cu-CuSO4 Reference Electrode (Permanent) |
| 1                                                                                 | TYPE OF REFERENCE ELECTRODE                  | 1.1                                      | <input checked="" type="checkbox"/> Permanent              |                                                   |                                          |
|                                                                                   |                                              | 1.2                                      | <input type="checkbox"/> Portable                          |                                                   |                                          |
| 2                                                                                 | TYPE OF REFERENCE ELECTRODE                  | 2.1                                      | <input checked="" type="checkbox"/> Cu / CuSO <sub>4</sub> |                                                   |                                          |
|                                                                                   |                                              | 2.2                                      | <input type="checkbox"/> Ag / Ag Cl                        |                                                   |                                          |
| 3                                                                                 | DIMENSION                                    | 3.1                                      | Without Backfill:                                          | (150 <sub>D</sub> × 250 <sub>L</sub> ) mm         |                                          |
|                                                                                   |                                              | 3.2                                      | With Backfill:                                             | (290 <sub>D</sub> × 610 <sub>L</sub> ) mm         |                                          |
| 4                                                                                 | WEIGHT                                       | 4.1                                      | Without Backfill:                                          | 5 Kg                                              |                                          |
|                                                                                   |                                              | 4.2                                      | With Backfill:                                             | 17 Kg                                             |                                          |
| 5                                                                                 | INTERNAL COPPER WIRE                         | 5.1                                      | Length:                                                    | 12 m                                              |                                          |
|                                                                                   |                                              | 5.2                                      | Size:                                                      | 2 mm Diameter                                     |                                          |
| 6                                                                                 | EXTERNAL COPPER WIRE                         | 6.1                                      | Length:                                                    | Acc.to request                                    |                                          |
|                                                                                   |                                              | 6.2                                      | Size:                                                      | Acc.to request                                    |                                          |
|                                                                                   |                                              | 6.3                                      | Sheath:                                                    | Acc.to request                                    |                                          |
| 7                                                                                 | CONNECTION OF INTERNAL WIRE TO EXTERNAL WIRE | 7.1                                      | <input checked="" type="checkbox"/> Cable Gland            |                                                   |                                          |
| 8                                                                                 | INSULATION MATERIAL                          | 8.1                                      | <input checked="" type="checkbox"/> Epoxy Resin            |                                                   |                                          |
| 9                                                                                 | MECHANICAL CHARACTERISTICS                   | 9.1                                      | <input checked="" type="checkbox"/> Ceramic Covering       |                                                   |                                          |
|                                                                                   |                                              | 9.2                                      | <input checked="" type="checkbox"/> Copper Winding         |                                                   |                                          |
|                                                                                   |                                              | 9.3                                      | <input checked="" type="checkbox"/> Plastic Cap            |                                                   |                                          |
| 10                                                                                | ELECTRICAL PROPERTIES                        | 10.1                                     | POTENTIAL:                                                 | 70±20 mV<br>(Respect to SCE Reference Electrode)  |                                          |
|                                                                                   |                                              | 10.2                                     | POTENTIAL:                                                 | 320±20 mV<br>(Respect to SHE Reference Electrode) |                                          |
| 11                                                                                | BACK FILL                                    | 11.1                                     | <input checked="" type="checkbox"/> Yes                    | Gypsum:                                           | 75%                                      |
|                                                                                   |                                              |                                          |                                                            | Bentonit:                                         | 20%                                      |
|                                                                                   |                                              | 11.2                                     | <input type="checkbox"/> No                                |                                                   |                                          |
| 12                                                                                | DESIGN LIFE                                  | 12.1                                     | 25 Years                                                   |                                                   |                                          |