

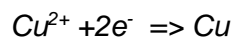
CSE Reference Electrode

Copper / Copper sulfate reference electrode for steel in concrete

Technical Data Sheet

Product application

The copper/copper sulfate electrode is a reference electrode of the first kind, based on the redox reaction with participation of the metal (copper) and its salt, copper(II) sulfate. It is used for measuring electrode potential and is the most commonly used reference electrode for testing cathodic protection corrosion control systems. The corresponding equation can be presented as follow:



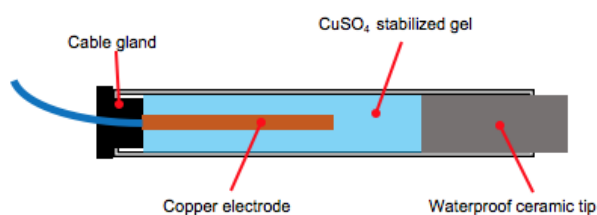
The Nernst equation below shows the dependence of the potential of the copper/copper sulfate electrode on the activity or concentration copper-ions:

$$E = 0.337 + \frac{RT}{2F} \ln a_{Cu^{2+}}$$

Product description

Dimensions : 80mm long x 12mm diameter

Cable : 1,23 mm² or 2,5 mm² highly chemical resistant dual wall constructed tinned copper braid cable.



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Approved
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All technical data stated in this Technical Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. The information, and, in particular, the recommendations relating to the application and end-use of CorrPRE's products, are given in good faith based on CorrPRE's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with CorrPRE's recommendations.