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:

$$Cu^{2+} + 2e^{-} \Rightarrow Cu$$

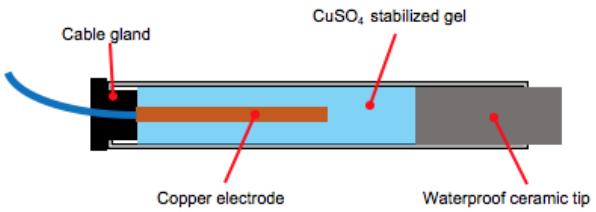
The Nernst equation below shows the dependence of the potential of the copper/copper sulfate electrode on the activity or concentration copper-ions:

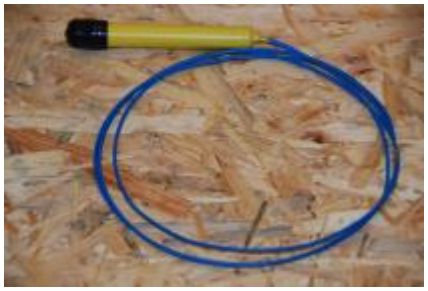
$$E = 0.337 + \frac{RT}{2F} \ln a_{Cu^{2+}}$$

Product description

Dimensions : 80mm long x 12mm diameter

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





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