

## PRODUCT DESCRIPTION

Finely divided crystals of copper sulfate with 99% purity, used to fill the reference electrodes of Cu / CuSO<sub>4</sub> for cathodic protection. It comes in a ¾ lb and a 2 ½ lb presentation. Under normal conditions a 2 ½ lb container should hold approximately 40 crystal charges for conventional M.C. Miller electrodes models RE-5 and RE-5C.



## CHARACTERISTICS

- Name: copper (II) sulfate pentahydrate
- Chemical formula: CuSO<sub>4</sub> · 5H<sub>2</sub>O
- Appearance: blue crystals
- pH: 3.7-4.2 (10% soln.)
- H<sub>2</sub>O solubility: soluble, 31.6 g/100 cc (@ 0°C)

## INSTRUCTIONS FOR USE

To fill the Cu / CuSO<sub>4</sub> reference electrodes, add the copper sulfate crystals to the reference electrode body. The amount of crystals to be added depends on the type of electrode. Normally the crystals should fill the tube to about 1/3 of its height, regardless of the type of electrode. Weight guidelines for crystals are shown below for each type of M.C. Miller electrode:

- RE-5 y RE-5C: 0.7 Oz. / 20 grams de CuSO<sub>4</sub>
- RE-7: 0.4 Oz. / 11 grams de CuSO<sub>4</sub>
- RE-375: 0.05 Oz. / 1.5 grams de CuSO<sub>4</sub>
- RE-2.5 y RE-5U: 0.64 Oz. / 18 grams de CuSO<sub>4</sub>

Add distilled or deionized water, then close the electrode and shake vigorously until the crystals dissolve and the solution is completely saturated with copper sulfate.

#### WARRANTY AND LIMITATION OF LIABILITY

TECNOLOGIA TOTAL will not be in any case responsible for damages of any nature that could be derived from an inadequate use of the product. Before using the product, the user must determine if the product is suitable for its intended use, taking all risks and liability that could be derived from its use.

If it's proved that a product is faulty due to manufacturing or its material at the time of sale, or that it does not fulfill during its warranty period the indicated properties in this technical sheet, the only responsibility of TECNOLOGIA TOTAL will consist of replacing the buyer with the quantity of product that is found to be defective. TECNOLOGIA TOTAL does not take any responsibility for any additional cost such as manufacturing cost, withdrawal or re-application of the products. If TECNOLOGIA TOTAL offers a warranty to their clients, express or implicit, or a compensation that differs from the established in this section, this stipulation can not be altered unless a signed agreement by the parties.

