Eq-015 Room: C102 Time: June 6 16:00-16:15

Production of Pb-PbCl2 non-polarizing electrodes with high stability

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Non-polarizing electrodes, which showed the high stability, were manufactured using lead and chloridization lead(2). Lead sheets with some impurities were plated by the pure lead. Trerefore, the lead sheets were used to enlarge the surface area. This lead sheet were put in the vessels made of polyethylene, and those were filled with the chloridization lead(2), which was loosely kneaded with the potassium chloride saturation solution. The vessel bottom cut out and capped with the cork, thus, the potassium chloride saturation solution was made to drop out from the vessels bottom. To evaluate the performance, two electrodes were set up adjoining, and the potential difference between those was continuously measured. As a result, the amplitude of the noise of variability was about 0.8mVpp.