

ABSTRACT

Disclosed in the present invention is an SPM solution mixed acid output control method. Before an SPM solution enters a pickling tank, sulfuric acid and hydrogen peroxide are sequentially subjected to first-stage mixing and second-stage mixing on a conveying pipeline according to a given volume ratio; a mixed solution outputted after the first-stage mixing is subjected to the second-stage mixing, heating is carried out during the first-stage mixing, an oxygen concentration value of the mixed solution flowing out after the first-stage mixing is monitored in real time, and if the oxygen concentration value is lower than an oxygen concentration value of a full reaction, sulfuric acid and hydrogen peroxide are supplemented and added in the given volume ratio during the second-stage mixing such that an oxygen concentration value, monitored in real time, of a mixed solution flowing out after the second-stage mixing reaches the oxygen concentration value of the full reaction. According to the present invention, full mixing of sulfuric acid and hydrogen peroxide is achieved in a segmented mixing manner, accurate control over the temperature is achieved, and a full reaction of a mixed solution is guaranteed, thereby guaranteeing that the mixed solution entering the pickling tank meets the cleaning requirement, and improving the quality and efficiency of wafer cleaning.

(FIG. 1)