

## Abstract

The purpose of this study is to improve quality in chemical line process. The QC problem solving and design of experiment 2k factorial design when k was number of interested factors to study was applied in this study. From the fish bone diagram ,the major cause were operator set volt mistake , cathode plate bending , unsuitable distance between cathode plate and level of solution and re-anodization condition not suitable ( volt ,rising time and pattern) .

For the solution of operator set volt mistake was re-educated operator, check actual operation on the job training by leader and provided work instruction for the operation. Cathode plate bending and unsuitable distance between cathode plate and level of solution were solve by change new cathode plate by new design and add checking item of distance between cathode plate and solution before operation. Re-anodization condition unsuitable (volt, rising time and pattern) were solve by set experiment to fine the suitable condition of 3 factor were volt, rising time and pattern with two kind of product.

The result of improvement by improve operator set volt mistake, cathode plate bending, unsuitable distance between cathode plate and level of solution and re-anodization condition not suitable ( volt ,rising time and pattern) that can reduce product high current and product burn from 1.13% in Jun 2007 to 0.24% in Jan 2008 ,so this improvement can reduce defective around 78.77%