

Piyathat Thanprasertkul 2010: Design of Experiment for Improving Steel Wire Coating by Hot-dip Galvanizing Process at C Class. Master of Engineering (Industrial Engineering), Major Field: Industrial Engineering, Department of Industrial Engineering. Thesis Advisor: Associate Professor Prapaisri Sudasna-na-Ayudhya, Ph.D. 126 pages.

Wire coating by galvanized at C class is increased in demand because it protects wire rod from corrosion than A or B class. It can be applied to various types of factories such as electrical equipment (ground and electrical line) and construction (cable). Before performing the research study, the coated zinc weight was lower than the required standard about 22.14% (the weight standard is greater than 549 g/m^2). Thus, the production had non-conforming and its cost was too high, and led to the need of improvement at Hot-dip Galvanizing process at C class by conducting Split-split plot experiment. After the improvement, the coated zinc weight is higher than the required standard and production has zero non-conforming.

Student's signature

Thesis Advisor's signature