

عنوان مقاله:

Comparison between completion methods of phosphating process

محل انتشار:

چهارمین کنگره بین المللی پوشش های حمل و نقل (سال: 1393)

تعداد صفحات اصل مقاله: 3

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خلاصه مقاله:

Different methods are investigated to evaluate phosphating process completion such as weight-time data, measurement of potential, adhesion by pull-off and Atomic Force Microscopy (AFM). These different methods were compared and also phosphating coating completion time was obtained for zinc phosphating on steel 37. The optimal method depends on the facility. The best completion method is method that has short response time, acceptable response and low cost. The results indicated that increasing the phosphating time facilitated the precipitation of coating and also enhanced both thickness and uniformity of the coating. The best results were observed after 25 min of phosphating.

کلمات کلیدی:

phosphating process, completion methods, weight-time data, adhesion measurement, open circuit potential, Atomic Force Microscopy

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