

The study of surface characteristic in AZ91D sample by using arc anodizing method

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The use of magnesium alloys in engineering applications has increased steadily in recent years as magnesium alloys exhibit an attractive combination of low density and high strength /weight ratio. The growth of magnesium alloys application is found in components which are exposed to mild or non corrosive environments, because these materials are very reactive and their corrosion resistance is generally inadequate and has limited their use. To increase the corrosion resistance and to improve the paint adhesion properties of magnesium alloys, chemical conversion treatments are commonly applied to the surface. The main objective of this work is to describe the development of the arc anodizing method in cast AZ91 alloy.