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# **Corrosion Science and Protection Techonology**

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## 论文

Mg及其合金的阳极氧化技术进展

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摘要:

综述了阳极氧化技术在增强Mg及其合金耐蚀性和有关 Mg阳极氧化现象、成膜机理和膜的成分及结构等方面的研究进展.

关键词: Mg Mg合金 阳极氧化

PROGRESS ON ANODIZING TECHNOLOGY FOR MAGNESIUM AND ITS ALLOYS

## Abstract:

In this paper, the progress of anodizing technology for magnesium and its alloys is overviewed. Corrosion resistance of Mg and its alloy maybe efficiently enhanced by anodizing, the technology of which embodies mainly in variation of electrical parameters such as voltage and cunent while anod izing. Namely, the operating voltage is being raised toward higher values and the present constant voltage operation is being challenged by constant current oper ation. At the same time, simple alternating current or direct current electrical signals utilized during anodizing are being changed to sophisticated puls signals or their superposed signals. On the other hand, the change of electrolyte com position is also an important aspect of the development of the technology. The investigation actuality emphasized to the anodizing of magnesium and its alloys includes phenomena and mechanisms of the formation of anodizing coatings as well as their constituents and morphologies which are related to their protectiveness.

Keywords: mgnesium mgnesium allys anodizing

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- 2. 何立子 ,陈彦博 ,崔建忠 ,孙晓峰 ,管恒荣 ,胡壮麒 .Cu含量对一种新型AI-Mg-Si合金晶间腐蚀的影响[J]. 腐蚀科学与防护技术, 2004,16(3): 129-133
- 3. 文若颖, 刘宏伟, 陈声强..油品对Mg腐蚀程度的EIS检验方法的建立[J]. 腐蚀科学与防护技术, 2002,14(3): 185-187
- 4. 刘新宽, 向阳辉, 王渠东等 .Mg合金的防蚀处理[J]. 腐蚀科学与防护技术, 2001,13(4): 211-213

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