

论文

亚硫酸盐氧化失效机理研究

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摘要:

通过模拟贮存试验,了亚硫酸盐失效原因及防止方法。结果表明,目前广泛应用的亚硫酸盐法防止氧腐蚀效果有时不佳的原因主要是亚硫酸盐溶液在期间的氧化。

关键词: 亚硫酸盐 防腐蚀 氧化失效

DEGRADATION FAILURE OF SULFITE AND ITS PREVENTION

Abstract:

The cause of degradation failure of sulfite and its prevention have been studied by simulative storage experiment. The results showed that the degradation failure for anti-corrosion of sulfite was due to the autoxidation of aqueous sulfite during its storage. Water quality and pH value had little effect on the autoxidation. And adding of catalyst led to the decrease of its storage stability. It is concluded that the autoxidation of sulfite is based on free radical chain mechanism and can be prevented by adding free radical absorber.

Keywords: sulfite catalyzed sulfite stabilized sulfite autoxidation/mechanism

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