



### 铜离子和聚乙二醇辛基苯基醚(OP)对钢的缓蚀协同效应

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### Corrosion inhibition synergism of Cu<sup>2+</sup> and polyethylene glycol mono-(P)octyl phengl ether(OP)for steel in hydrochloric acid medium

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- 摘要
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全文: PDF (504 KB) HTML ( KB) 输出: BibTeX | EndNote (RIS) 背景资料

摘要 用失重法研究了在盐酸介质中,金属铜离子(II)和非离子表面活性剂聚乙二醇辛基苯基醚(OP)对钢的缓蚀协同作用,讨论了产生缓蚀协同作用的原因.

关键词: 盐酸 非离子表面活性剂 铜离子(II) 缓蚀协同作用 钢

Abstract: Corrosion inhibition synergism of metallic cations Cu<sup>2+</sup> and non ionic surfactant OP for steel in hydrochloric acid medium was investigated by weight loss method.It is found that the corrosion inhibition of either Cu<sup>2+</sup> or OP is rather low,but when they are mixed,the corrosion inhibition for steel increases greatly at a wider concentration range,and a strong corrosion inhibition synergismis shown.This result has an important theoretical meaning for the study of the advanced mixed inhibitor of steel.

Key words: hydrochloric acid non-ionic surfactant copper ion(II) corrosion inhibition synergism steel

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