

论文

汽车用其用材的腐蚀与对策：中国·瑞典10年合作研究

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摘要:

对中国与瑞典的2000余辆卡车、公共汽车腐蚀状况的调查揭示了对腐蚀最敏感的部件及改变材料和施以表面保护对腐蚀的影响。同时在中国6个、瑞典3个试验点进行腐蚀性环境因素影响的挂片试验，对汽车底部的挂片包括采用不同的结构材料、涂漆及临时防锈剂，研究开放表面及缝隙内的腐蚀行为。对汽车板腐蚀机理及影响因素、室内外加速腐蚀试验方法进行了初步探索。

关键词：汽车 环境腐蚀 穿孔腐蚀

CORROSION AND COUNTERMEASURES ON AUTOMOBILE AND ITS MATERIALS

Abstract:

In a co-operative Chinese-Swedish research project an investigation on the corrosion status of 2000 trucks and buses in China and Sweden has revealed the parts most sensitive to corrosion attack and the influence of changes in material or of the surface protective means on corrosion behaviors. In a stationary exposure at 6 Chinese and 3 Swedish sites the corrosivity of coupon and the effects of environmental parameters have been investigated. An extensive coupon exposure under buses displayed corrosion behaviors on free surfaces and in crevices, involving different construction materials, painting systems and temporary anti-rust agents. The corrosion mechanism of materials used for automobile, the affecting factors, accelerated outdoor and indoor corrosion test methods have also been researched.

Keywords: automobile environmental corrosion chinese-swedish cooperation

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