

Knowledge Organisations Aspirations and Experiences

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Corrosion Combating Properties of Hydroxyl Based Compounds on Mild Steel in Assam Coal Mine water

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KEYWORDS: Phosphonium compound; corrosion inhibitor, mild steel, coal mine water

INTRODUCTION

Corrosion inhibition of mild steel is a matter of theoretical as well as practical importance [1].

The coal mining industry is facing serious corrosion problems due to corrosive nature of mine water. One of the very important methods of minimizing corrosion today is the use of corrosion inhibitors. The efficiency of an organic compound, to act as a corrosion inhibitor, depends on its ability to adsorb and interact with metal atoms through their heteroatom. Compounds containing nitrogen, sulphur, and oxygen have been reported as inhibitors [2-7]. Further, the existing literature revealed that no single inhibitor exhibited 100% corrosion inhibition efficiency. There is always a great demand for developing such efficient inhibitors for controlling the corrosion process. The