



Inhibition Efficiency of Ranolazine On 304 Stainless Steel in Marine Environment

M. D. Medhi

Chemistry Research Laboratory, Dept. of Chemistry, R. J. College (University of Mumbai),
Ghatkopar (W), Mumbai-400 086, **INDIA**

Email: mandarmedhi@yahoo.com

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ABSTRACT

Certain piperazine derivatives like Ranolazine an antianginal drug is used as corrosion inhibitor for protection of 304 Stainless Steel in Marine environment. The inhibition effect of the compound was investigated by using electrochemical polarization techniques i.e. potentiodynamic and open circuit potential in the concentration ranges 5 to 30ppm. Results obtained reveals that such a heterocyclic organic compound is a very good corrosion inhibitor and exhibits the best performance at a very low concentration of 15ppm. Potentiodynamic curve indicates that compound is a mixed type of inhibitor having heteroatoms present in the side chain as well as in the ring of the compound.

Keywords: Corrosion, 304 Stainless Steel, Inhibitors, and Electrochemical techniques.
