

## Inhibiting Effect Of $\text{NO}_3^-$ On The Corrosion Behavior Of Q420 Steel In $\text{Cl}^-$ Solution

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**Abstract** The influence of nitrate ions on the corrosion of Q420 steel in chloride environment was studied by electrochemical means. The results show that in solutions where the ratio of nitrate ions to chloride ions is greater than 0.09%, nitrate ions have an inhibitory effect on the corrosion of Q420 steel in chloride environment. However, no inhibitory effect was observed in solutions where the ratio of nitrate ions to chloride ions is less than 0.09%. Furthermore, nitrate ions are unable to inhibit pitting corrosion of Q420 steel in chloride environment.

**Keywords** Q420 steel、corrosion、Inhibiting Effect、nitrate ions、chloride.

### Reference (followed the APA 7th)

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