

ABSTRACT

Product extraction rapeseed meal as an inhibitor of corrosion of steel in neutral aqueous medium

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Corrosion of steel equipment, pipelines today is relevant and unsolved. Search methods to overcome it is an important and promising direction. Cheap and effective way to reduce the rate of corrosion inhibitors is based on plant material.

Purpose - to evaluate the effectiveness anticorrosive action and mechanism of forming a protective film on steel izopropanolnym extract of canola meal in a neutral aqueous medium.

Object of research - inhibiting corrosion of steel in neutral aqueous medium organic compounds plant material.

Subject of research - corrosion performance izopropanolho extract rapeseed meal.

Research methods - corrosion and electrochemical methods inhibiting properties of the extract of canola meal in a neutral aqueous medium. Qualitative chemical composition of rapeseed meal extract was determined by infrared (IR) and gas chromatography-mass spectrometry (GC-MS). The presence of the surface protective film was determined by infrared spectrometry. Adsorption properties of organic compounds, their adsorption centers evaluated by performed quantum chemical calculations of their spatial and electronic structure. Also used chromatography-mass spectrometry and IR - spectrum analysis component composition izopropanolnoho extract rapeseed meal.

Keywords: herbs inhibitor, polarization resistance masometriya, polarization curves, composition.