

The corrosion inhibitor testings

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Gas and oil offshore pipelines are usually protected from internal corrosion by the corrosion inhibitors. In order to select the suitable inhibitor, the series of the tests have to be performed on the inhibitors submitted by inhibitor producing companies. The efficiencies and the secondary properties of the inhibitors have to be determined and compared. The efficiency of the inhibitor is calculated from the corrosion rates and the resistances of the specimen in the test condition containing inhibitor and without it. The electrochemical techniques are used to determine the corrosion rate and the resistance. The corrosion inhibitor tests are the bubble test, thermal stability test, sand absorption test, contact time test, jet impingement test as well as foaming tendency and emulsion tendency tests.