

Study of the corrosion attack of the acidic organic medium from the ethylbenzene reactor

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Abstract The paper presents the research concerning the corrosion attack of the acidic organic medium from the alkylation reactor of the ethylbenzene plant. Due to some mechanical or thermal stresses, the inside protective coat of the walls of the reactor and the pipelines from the reaction zone of the ethylbenzene plant could be destroyed during plant operation. The penetration index for the metallic material directly exposed to chemical corrosion was evaluated.

Keywords: Corrosivity, penetration index, alkylation reactor, ethylbenzene.
