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DESIGN, DEVELOPMENT AND PERFORMANCE ANALYSIS OF ANTICORROSIVE HEAT EXCHANGER

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ABSTRACT

When we come across special purpose application such as H2SO4 dilution plant acid cooling, chromium bath cooling, Chlorinator cooling etc. Then major problem is due to corrosion and its effects due to fouling and scaling. In this research work, new polymer coated materials are developed and tested for its thermal and mechanical properties. We have develop plate type heat exchanger with this developed material Polly vinyl based polymer coating on the mild steel plates. This heat exchanger is tested for different industrial corrosive application like Acid cooling application, saline or brackish water cooling, chlorinated water cooling, chromium plating bath cooling, etc.

KEYWORDS: Anticorrosive, Plate Type, Polymer Coated