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## 超重力法吸收醋酸尾气中试研究 分享到:

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Title: Pilot scale Research on Absorption of Acetic Acid Tail Gas by High Gravity Technology

作者: 焦纬洲; 刘有智; 崔磊军  
山西省超重力化工工程技术研究中心, 山西太原030051

Author(s): JIAO Wei zhou; LIU You zhi; CUI Lei jun  
Research Center of Shanxi Province for High Gravity Chemical Engineering and Technology,North University of China, Taiyuan 030051

关键词: 超重力法; 旋转填料床; 吸收; 醋酸尾气

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摘要: 为解决在用醋酐法生产HMX的过程中挥发出来的大量醋酸溶剂,采用中试用的超重力旋转填料床对醋酸尾气进行吸收。采用生消水作为循环吸收剂,考察了超重力因子、液体流量和循环时间对液相醋酸质量分数的影响。结果表明,在超重力因子111、液体循环量0.3m<sup>3</sup>、液体流量1.0m<sup>3</sup>/h、循环时间12h后,液相醋酸的质量分数达到60%以上,每年回收的醋酸直接经济效益可达135万元。

Abstract: In order to absorb the acetic acid solvent volatilized in the process of producing HMX by acetic anhydride method, a research was made to absorb the acetic acid tail gas with the high gravity rotating packed bed used in a pilot scale experiment. The effect of the high gravity factor, liquid flux and circulation time on the liquid acetic acid mass fraction was investigated. The results showed that under the conditions of high gravity factor 111, liquid circulation 0.3m<sup>3</sup>, liquid flux 1.0m<sup>3</sup>/h, circulation time 12h, the liquid acetic acid mass fraction reached more than 60% and the economic benefit of the recuperated acetic acid is 1.35 million Yuan annually.

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