

عنوان مقاله:

Effect of Seeding Operation on the Dynamic Strength of Urea Prills in Petrochemical Plants

محل انتشار:

پنجمین کنگره بین المللی مهندسی شیمی (سال: 1386)

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خلاصه مقاله:

Effect of seeding operation on the dynamic strength of urea prills is investigated in a large scale urea production unit of a petrochemical plant. According to experimental results the mean dynamic strength of 88 wt% well above the recommended value of 85 wt% can be obtained if a seed composition of 450 ppmw with the mean seed size of 20 μm is used for seeding operation. A semi empirical correlation for description of the seeding process is also presented. The predicted prill dynamic strength is always within $\pm 3.3\%$ of the measured value.

کلمات کلیدی:

Seeding, Dynamic Strength, Urea, Prill, Petrochemical

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