## RESEARCH NOTES

内下料式重力混料仓的实验研究

易江林,景山,陈银飞,郭艳,金涌

Department of Chemical Engineering, Tsinghua University, Beijing 100084, China

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摘要 A novel gravity blender with an inner downcomer was experimentally studied in this work.

The flow characteristics of solid through the downcomer with branch pipes and the influence of the number of intake openings and their axial position along the downcomer on blending efficiency were investigated. The results of tracer experiments show that better blending quality can be obtained if the intake openings along the downcomer are designated according

to the equal time interval principle. More intake openings are beneficial for blending efficiency, and the solids flow rate through the branch pipes along the downcomer can be predicted by the Beverloo equation.

关键词 gravity blending silo inner downcomer

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## An Experimental Study on Gravity Blending Silo with an Inner Downcomer

YI Jianglin, JING Shah, CHEN Yinfei, GUO Yan, JIN Yong

Department of Chemical Engineering, Tsinghua University, Beijing 100084, China

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**Abstract** A novel gravity blender with an inner downcomer was experimentally studied in this work. The flow characteristics of solid through the downcomer with branch pipes and the influence of the number of intake openings and their axial position along the downcomer on blending efficiency were investigated. The results of tracer experiments show that better blending quality can be obtained if the intake openings along the downcomer are designated according to the equal time interval principle. More intake openings are beneficial for blending efficiency, and the solids flow rate through the branch pipes along the downcomer can be predicted by the Beverloo equation.

Key words gravity blending; silo; inner downcomer

通讯作者: 易江林 作者个人主页:易江林;景山;陈银飞;郭艳;金涌

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