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Odsiarczanie gazów bogatych w SO2 w reaktorze barbotażowym nowej konstrukcji

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SO2-rich gases (1.49–7.39% by vol. SO2) were desulfurized with spent lime sorbent (97% by mass CaCO3) in a 1.5 m3 bubble reactor equipped with an innovative slotted gas disperser. Exptl. tests were made for different variants of reactor design, (sizes and location of the slots), with the inlet gas flow rate in the range of 150–750 m3/h, at the constant initial slurry vol. in the reactor (0.8 m3), for different direction of stirrer rotation and at temp. 50–60°C. The SO2 concn. in the outlet gas was about 200 ppm. The gas desulfurization efficiency was 92–94%. A good quality gypsum of particle size 30–40 μm was obtained with a very high efficiency of sorbent use. The unit power consumption ranged between 0.17–0.4 kW/kg of SO2 absorbed.

Metryczka

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