多孔玻璃粉在蒸汽相中自转晶合成含硼CF-2沸石

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摘要 在甲胺和水的蒸汽相中,多孔玻璃粉自转晶为高结晶度纯相含硼TON类型的CF- 2沸石。~(11)B MAS NMR证明硼原子基本上进入了沸石骨架。扫描电镜照片显示, 合成的CF-2沸石中既有单个晶体,也有由许多单个晶体构成的扇形聚集体。单个晶 体呈长条形。

关键词 沸石 X射线衍射分析 甲胺 水 扫描电子显微镜 聚集体

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Synthesis of Boron-containing CF-2 Zeolite by Self-transformation of Proous Glass Granules in a Vapor Phase

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Abstract Boron-containing CF-2 zeolite with high crystallinity and purity, which is first reported, was synthesized by self-transformation of porous glass granules in the vapor phase of methylamine and water. \sim (11)B MAS NMR spectra prove that the atoms of B in the raw glass have been essentially completely incorporated into the zeolite framework. The as-synthesized crystals of CF-2 zeolite are rectangular rod-shaped. Some of the crystals are individuals and the others are aggregates.

Key words ZEOLITE XRD METHANAMINE WATER SEM AGGREGALES

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