



TEXTURAL PROPERTIES OF CHABAZITE CRYSTALIZED FROM Cs⁺, Na⁺-ALUMINOSILICATE GELS

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Abstract

Zeolites Cs⁺, Na⁺-chabazite with SiO₂ /Al₂O₃ ratio of 7 were prepared from gels with molar composition (2.41-2.73)(Cs⁺ + Na⁺)₂O : (0.02 TPAOH) : Al₂O₃ : 7.21 SiO₂ : (194-204) H₂O in static hydrothermal conditions at 108 – 132 °C for 8-21 days. The solids were characterized by X – ray diffraction, scanning electron microscopy, thermal analysis and nitrogen sorption measurements. The nitrogen sorption isotherms at -196°C present a hysteresis loop which is indicative for the existence of mesopores intra or/and interparticles.

Key words: Cs⁺, Na⁺-chabazite, nitrogen isotherm, specific surface area, pore size

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