

LARGE CRYSTAL MOLECULAR SIEVES AND THEIR MANUFACTURE**ABSTRACT**

A process for the manufacture of large crystal size synthetic porous crystalline molecular sieve requires an aqueous reaction mixture that is organic structure directing agent-free, has a $\text{H}_2\text{O}/\text{MOH}$ molar ratio (M is an alkali metal) of 75 or less, a source of X_2O_3 (X is a trivalent element) and a source of YO_2 (Y is a tetravalent element). The source of X_2O_3 and YO_2 is an amorphous material containing both X_2O_3 and YO_2 and having a $\text{YO}_2/\text{X}_2\text{O}_3$ molar ratio of 15 to 40. The resultant highly crystalline novel materials have crystals with at least one dimension greater than 1 μm , such as greater than 3 μm .