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(54) Title: A PROCESS FOR PREPARING MOLECULAR SIEVES VIA CONTINUOUS ADDITION OF NUTRIENTS

(57) Abstract: A process for synthesizing a variety of molecular sieves has been developed. The process involves forming a reaction mixture comprising reactive sources of the framework elements plus at least one templating agent, reacting the mixture to at least partially crystallize the molecular sieve and provide a slurry of seed crystals and adding to it nutrients (sources) of the framework elements, e.g. aluminum and silicon in order to grow the seed crystals. The rate of addition of the nutrients is controlled such that it is substantially the same as the crystal growth rate and such that there is substantially no nucleation of new crystals. The seed crystals may be the same or different than the nutrients being added, thus allowing for a layered molecular sieve. When the crystals have reached a desired size, they are isolated by conventional techniques.

WO 2007/019205 A3