Investigation of parameters affecting
zeolite Na-A crystal size and morphology

II - The effects of mixing rates, time, and temperature
on synthesis of zeolite A

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Abstract: Morphology and crystal size of zeolites have an important role for their specific use in industries. Many parameters are found to be highly important in the physical appearance of the final zeolite products. In this work, some of the most effective parameters influencing the crystal size and morphology of zeolite A such as temperature and aging time of the gel preparation, crystallization temperature and rate of mixing during the synthesis were studied. Phase identification, morphology and the particle size of final products were studied using X-ray diffraction (XRD) and scanning electron microscopy (SEM) techniques.