

## CHANGE OF PHYSICO-CHEMICAL PROPERTIES BY MECHANICAL ACTIVATION OF ZEOLITES

**Mamadoliev Ikromjon Ilkhomidinovich\***; **Mominboyev Diyorbek Jasurbek ogli\*\***

\*Assistant,

Department of Medical Chemistry,  
Samarkand State Medical Institute,  
Samarkand, Republic of UZBEKISTAN  
Email id: ikromjon.mamadoliev@mail.ru

\*\*Student,

Samarkand State Medical Institute,  
Samarkand, Republic of UZBEKISTAN  
Email id: diyorbekmominboyev5@gmail.com

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### ABSTRACT

*The study (Navbakhor district of Navoi region) consists of the study of the properties of natural (mining) bentonite mineral raw material to its physical and chemical properties through mechanical activation. X-ray phase and X-ray spectral analysis of the composition of the layer montmorillonite was performed. Mechanical and chemical activation of zeolites to change the surface area and particle size was carried out using a high-power mill AGO-3 and a conical vibrating grinder VKMD-6. The dependence of the mechanical activation of layer montmorillonite on time over 20s, 40s, 80s and 160s proved that it increases the surface area. Using the Karman-Kozeni method, optimal regimes were determined by doubling the mechanical activation time and studying the density, sorption properties, and specific surface area of the zeolite.*

**KEYWORDS:** *Bentonite, Montmorillonite, X-Ray Phase, X-Ray Spectral, Mill, Conical Vibrating Grinder, Karman-Kozeni, Surface Area.*

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