

Abstract

The preparation and the structural characterization of aluminium inter-foliated montmorillonite (Algerien clay) has revealed that calcination by microwave finish in 10 minutes, present results showed a similar characterisation of height performance as well as of classic calcinations (5 hours). The textural measurement of this four matrix shows that the decking of montmorillonite by the metallic polycations create an important micro porous system. The catalytic properties of this new solid micro porous using a transformation of the *m*-xylene as a test reaction, show a great selectivity of isomerisation by dismutation reaction to *o*- and *p*-xylene.