

**BINDER-CONVERTED ALUMINOSILICATE X-TYPE ZEOLITE COMPOSITIONS WITH
LOW LTA-TYPE ZEOLITE**

ABSTRACT

A zeolitic binder-converted composition comprising (a) a zeolite X composition having at least a first zeolite X having a mean diameter not greater than 2.7 microns, and a second zeolite X, wherein the second zeolite X is obtained by converting a binder material to the second zeolite X and the binder material is in a range from 5 to 50 wt% of the zeolite X composition; and (b) an unconverted binder material content, after conversion to the second zeolite X is complete, in a range from 0 to 3 wt% of the zeolite X composition. The zeolite X composition has an average Si/Al framework mole ratio in a range from 1.0 to 1.5, and a relative LTA intensity not greater than 1.0, as determined by x-ray diffraction (XRD). The zeolitic binder-converted composition is useful in a process for separating para-xylene from a mixture of C₈ alkylaromatics.

(Figure 1)