

Title (en)

ZEOLITE ADSORBENTS HAVING A HIGH EXTERNAL SURFACE AREA AND USES THEREOF

Title (de)

ZEOLITHISCHE ADSORPTIONSMITTEL MIT EINER GROSSEN EXTERNEN OBERFLÄCHE UND VERWENDUNGEN DAVON

Title (fr)

ADSORBANTS ZEOLITHIQUES DE HAUTE SURFACE EXTERNE ET LEURS UTILISATIONS

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Application

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Abstract (en)

[origin: WO2016124842A1] The present invention concerns the use, for gas separation, of at least one zeolite adsorbent material comprising at least one FAU zeolite, said adsorbent having an external surface area greater than $20 \text{ m}^2 \cdot \text{g}^{-1}$, a non-zeolite phase (PNZ) content such that $0 < \text{PNZ} \leq 30\%$, and an Si/Al atomic ratio of between 1 and 2.5. The invention also concerns a zeolite adsorbent material having an Si/Al ratio such that $1 \leq \text{Si/Al} < 2.5$, a mesoporous volume of between $0.08 \text{ cm}^3 \cdot \text{g}^{-1}$ and $0.25 \text{ cm}^3 \cdot \text{g}^{-1}$, a (Vmicro - Vmeso)/Vmicro ratio of between -0.5 and 1.0, non-inclusive, and a non-zeolite phase (PNZ) content such that $0 < \text{PNZ} \leq 30\%$.

IPC 8 full level

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