



Technical Data Sheet

ACS Material SSZ-13

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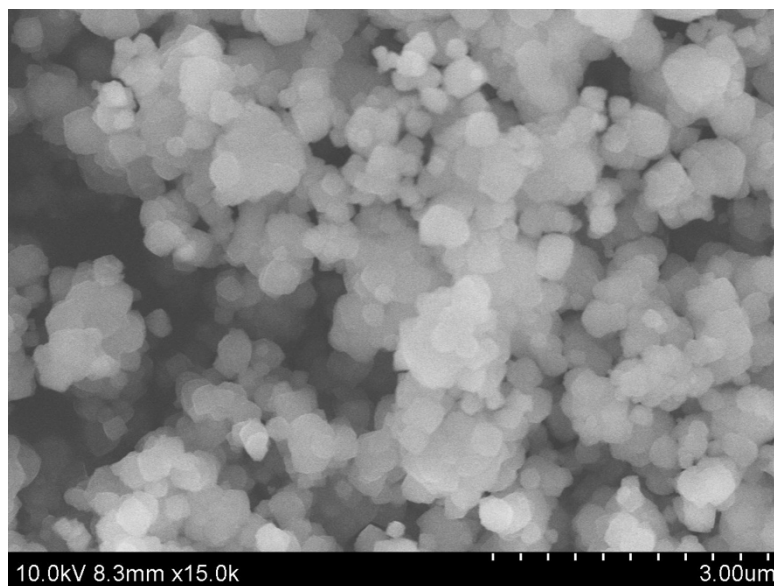
1. Preparation Method

Hydrothermal Method

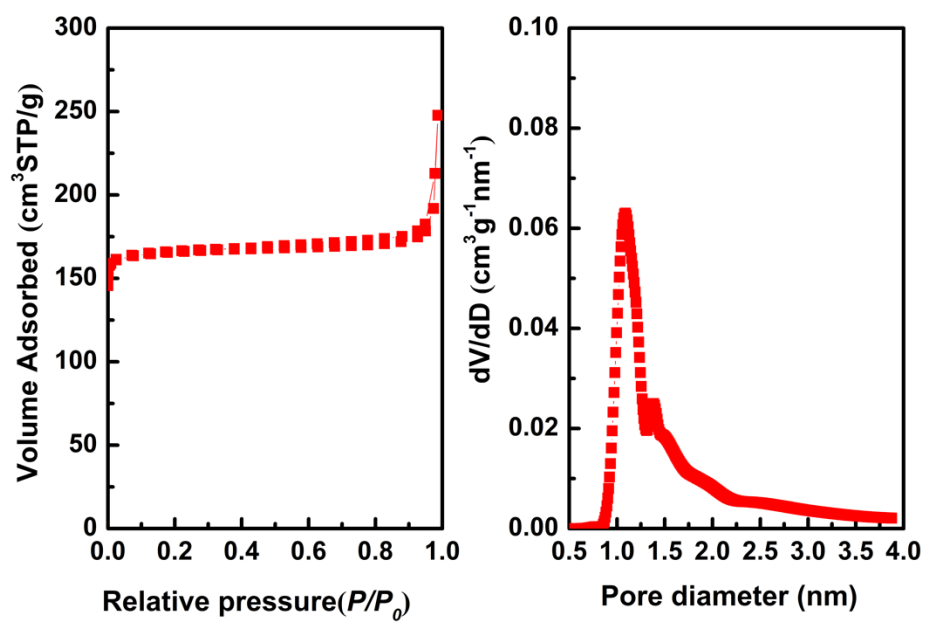
2. Characterizations

Type:	Type A
Form:	Microporous zeolite, H ⁺
SiO₂/Al₂O₃ Molar Ratio:	13-15
D50:	<9 um
BET:	>600 m ² /g
Crystallinity Size:	0.5 – 1 um
Na₂O:	<500 ppm
Relative Crystallinity:	>90%

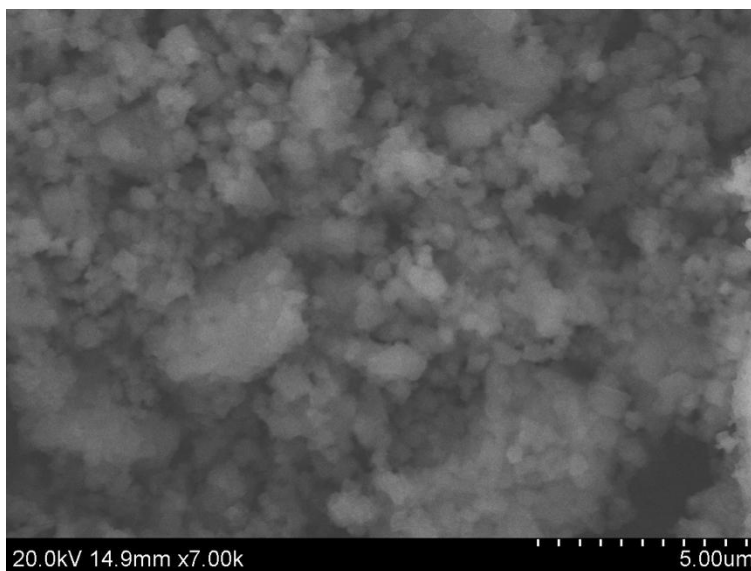
Type:	Type B - Discontinued	Type C - Discontinued
Form:	Microporous zeolite, NH ₄ ⁺	Microporous zeolite, NH ₄ ⁺
SiO₂/Al₂O₃ Molar Ratio:	10-20	20-30
Particle Size:	300-800 nm	2-3 um
D50:	<9 um	<9 um
BET:	~626 m ² /g	~550 m ² /g
Pore Volume:	N/A	≥0.28 cm ³ /g
Average Pore Diameter:	N/A	N/A
Na₂O:	<367 ppm	<350 ppm
H₂O	<4%	<2%



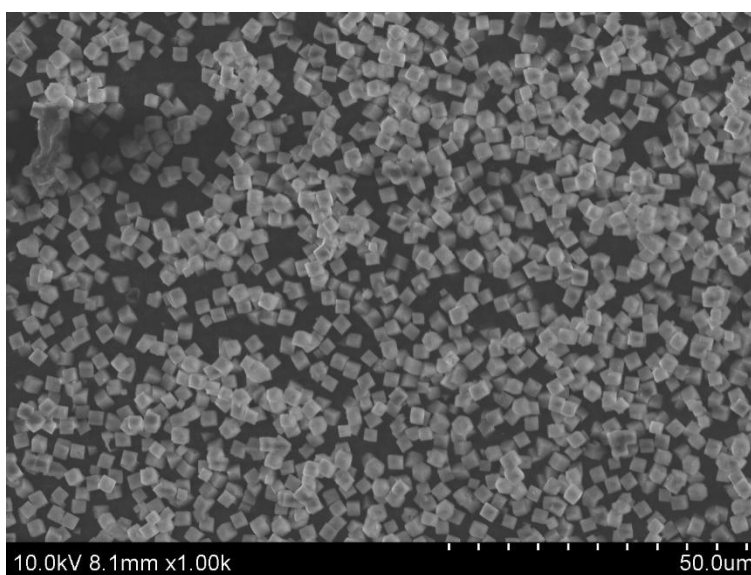
Typical SEM Image of ACS Material SSZ-13 (Type A)



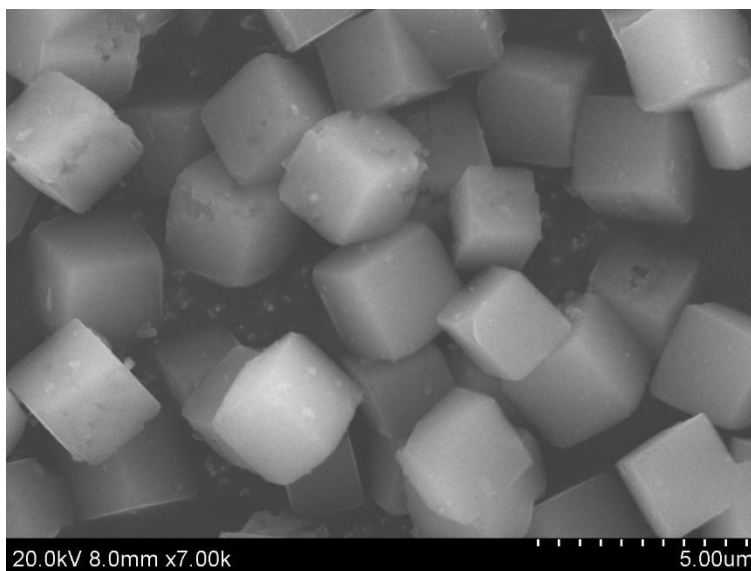
Typical BET Analysis of ACS Material SSZ-13 (Type A)



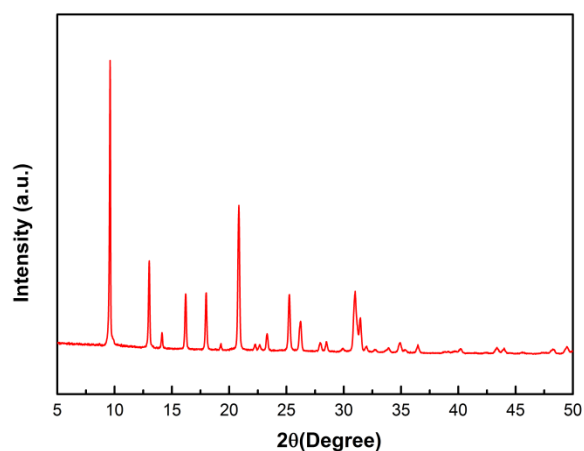
Typical SEM Image of ACS Material SSZ-13 (Type B)



Typical SEM Image of ACS Material SSZ-13 (Type C)



Typical SEM Image of ACS Material SSZ-13 (Type C)



XRD Analysis of ACS Material SSZ-13 (Type C)

3. Application Fields

- 1) Methanol to Olefins (MTO)
- 2) Selective Catalytic Reduction of Nitrogen Oxides (SCR)
- 3) Gas adsorption separation

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