



Technical Data Sheet

ACS Material SSZ-13

Table of Contents

[1 – Preparation Method](#)

[2 – Characterizations](#)

[3 – Application Fields](#)

Contact Information:

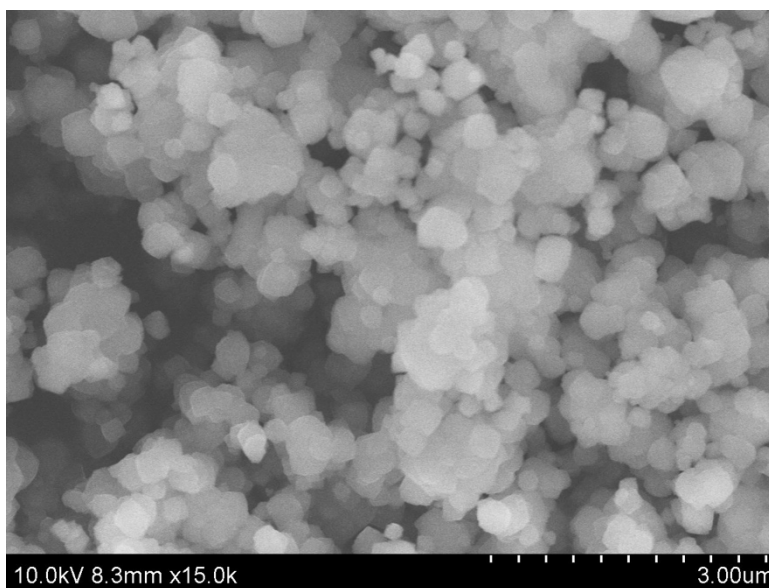
Manufacturer: ACS Material, LLC.
Address: 959 E Walnut St. Suite 100,
Pasadena, CA 91106, USA
Phone: (866)-227-0656
Fax: (781)-518-0284
E-Mail: contact@acsmaterial.com
Revision: 071218

1. Preparation Method

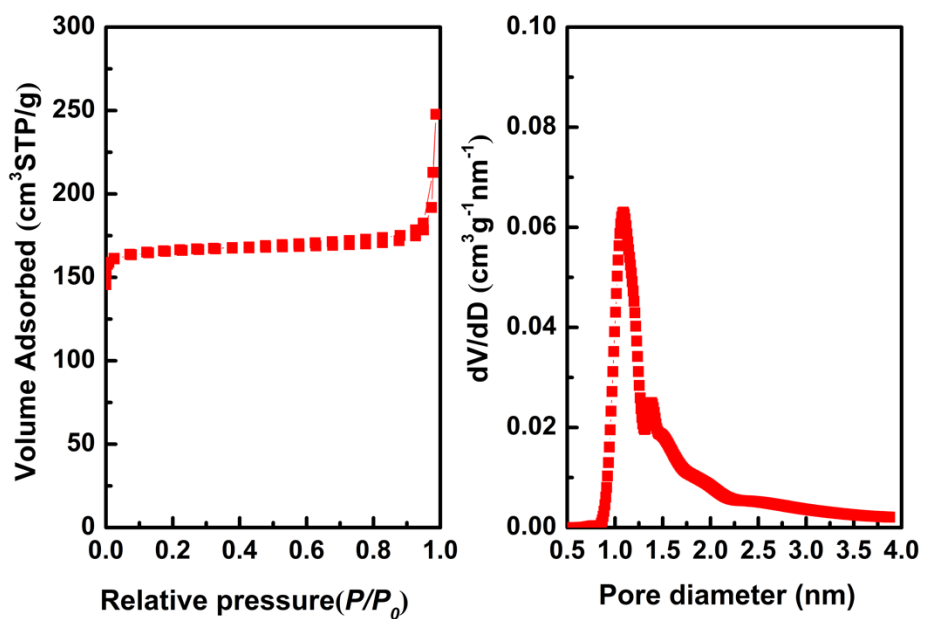
Hydrothermal Method

2. Characterizations

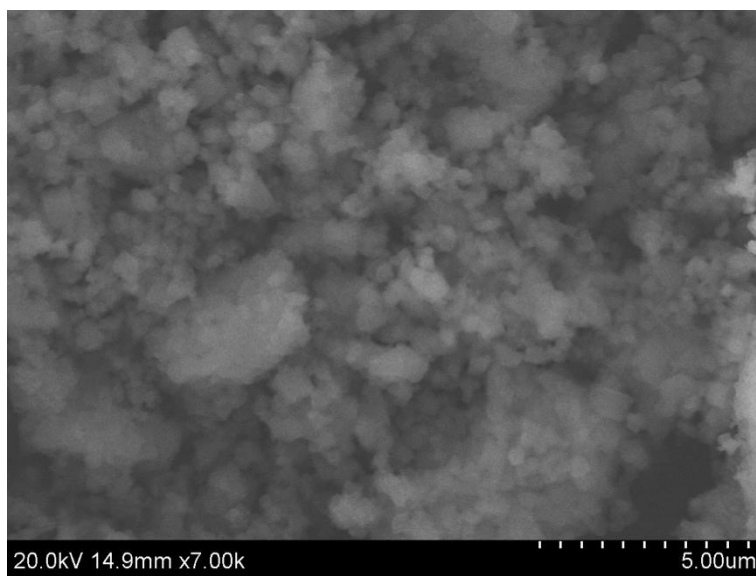
Type:	Type A	Type B - Discontinued	Type C
Form:	Microporous zeolite, NH ₄ ⁺	Microporous zeolite, NH ₄ ⁺	Microporous zeolite, NH ₄ ⁺
SiO ₂ /Al ₂ O ₃ Molar Ratio:	20-30	10-20	20-30
Particle Size:	300-800 nm	300-800 nm	2-3 um
BET:	~671 m ² /g	~626 m ² /g	~550 m ² /g
Pore Volume:	≥0.25 cm ³ /g	N/A	≥0.28 cm ³ /g
Average Pore Diameter:	1.0 nm	N/A	N/A
Na ₂ O:	<500 ppm	<367 ppm	<350 ppm
H ₂ O	<5%	<4%	<2%



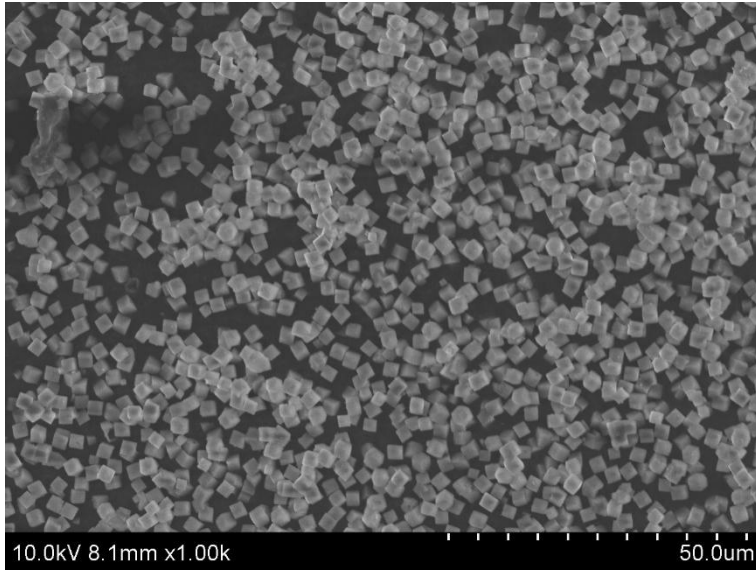
Typical SEM Image of ACS Material SSZ-13 (Type A)



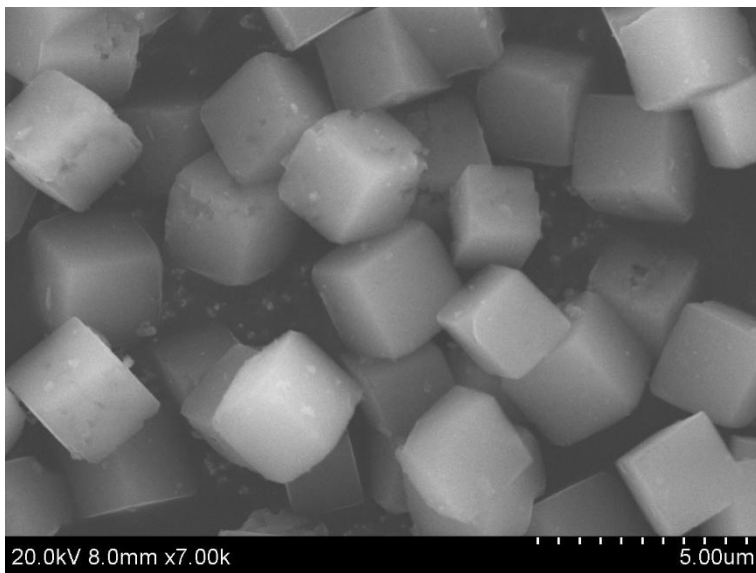
Typical BET Analysis of ACS Material SSZ-13 (Type A)



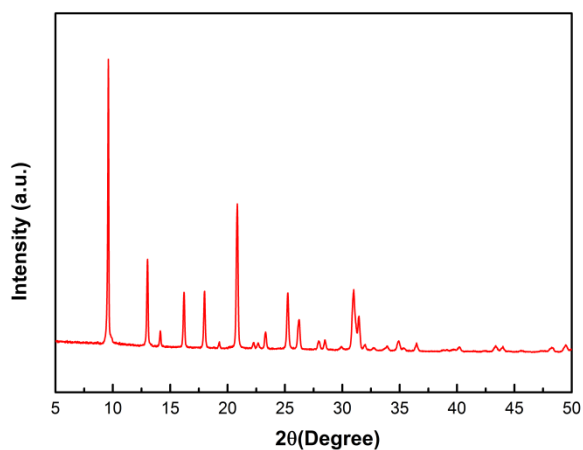
Typical SEM Image of ACS Material SSZ-13 (Type B)



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

Disclaimer: ACS Material, LLC believes that the information in this Technical Data Sheet is accurate and represents the best and most current information available to us. ACS Material makes no representations or warranties either express or implied, regarding the suitability of the material for any purpose or the accuracy of the information contained within this document. Accordingly, ACS Material will not be responsible for damages resulting from use of or reliance upon this information.