



## Technical Data Sheet

### ACS Material Y-Zeolite

#### Table of Contents

---

1 – Preparation Method

2 – Characterizations

3 – Application Fields

---

#### **Contact Information:**

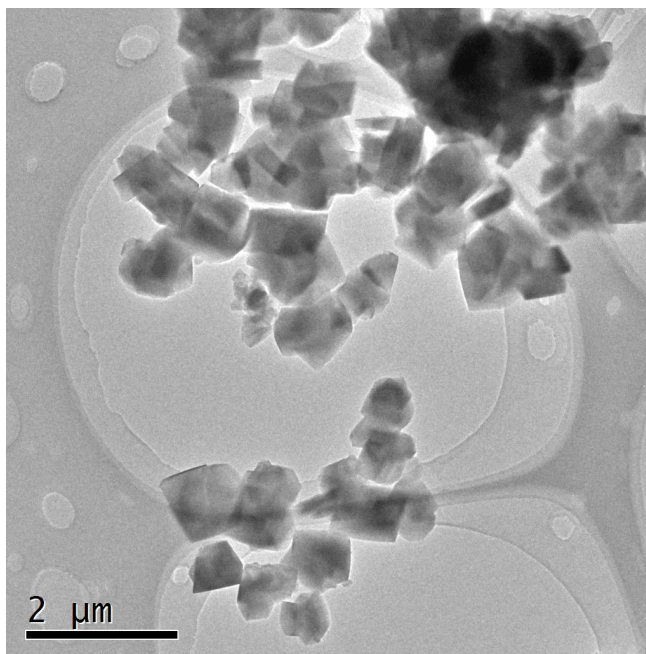
Manufacturer: ACS Material, LLC.  
Address: 959 E Walnut St. Suite 100  
Pasadena, CA 91106, USA  
Phone: (866)-227-0656  
Fax: (781)-518-0284  
E-Mail: [contact@acsmaterial.com](mailto:contact@acsmaterial.com)  
Revision: 011824

## 1. Preparation Method

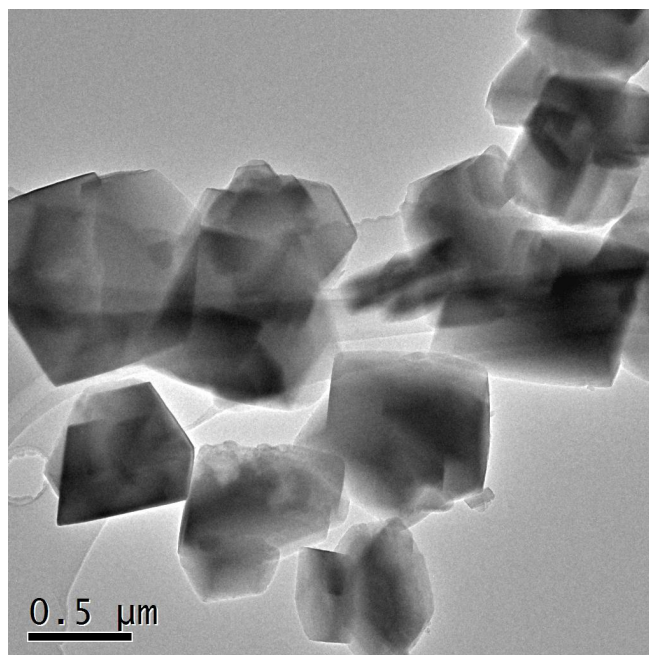
Hydrothermal Method

## 2. Characterizations

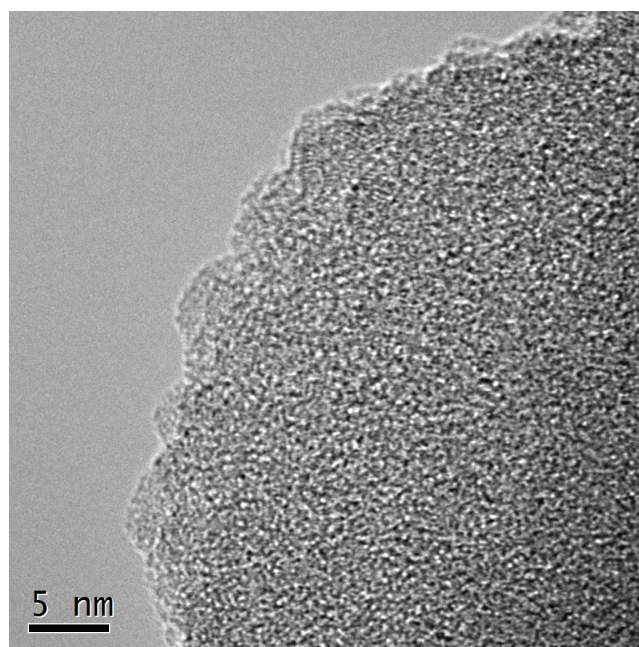
<b>Appearance:</b>	White powder
<b>SiO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub>:</b>	5-6
<b>Particle size:</b>	<6 μm
<b>Lattice constant:</b>	2.45-2.48 nm
<b>Na<sub>2</sub>O:</b>	≤12.5%
<b>Crystallinity:</b>	≥88%
<b>LOI (Loss on ignition):</b>	≤15%
<b>Static bibulous value:</b>	≥32%



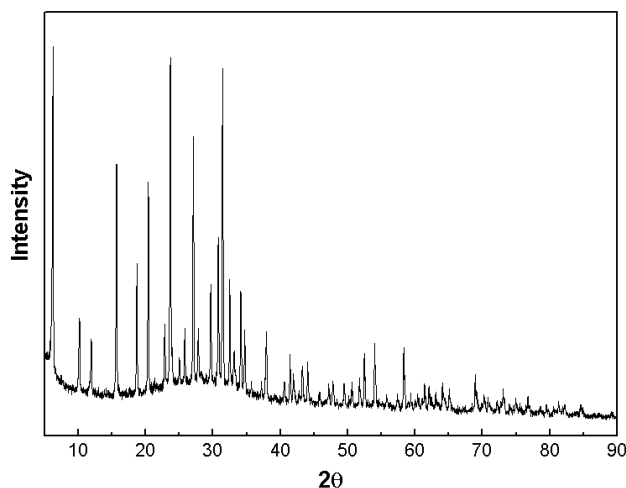
Typical TEM Image of ACS Material Y-zeolite



Typical TEM Image of ACS Material Y-zeolite



Typical TEM Image of ACS Material Y-zeolite



XRD Analysis of ACS Material Y-zeolite

### 3. Application Fields

- 1) Fluid catalytic cracking (FCC)
- 2) Hydrocracking
- 3) Isomerization processes of oil refining

**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.