



## Technical Data Sheet

### ACS Material Molecular Sieve Carbon Dioxide Adsorbents

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#### **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: 050526

## 1. Preparation Method

Hydrothermal Method

## 2. Characterizations

<b>Appearance:</b>	Column (pelletized)
<b>(SiO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub>) Molar Ratio:</b>	20-1000
<b>Crystallite Size (μm):</b>	0.5-1
<b>Crushing Strength (N):</b>	≥50
<b>Particle Size:</b>	Length: <2 cm Diameter: 3 mm
<b>Bulk Density (g/mL):</b>	0.7
<b>BET Surface Area (m<sup>2</sup>/g):</b>	≥350
<b>Pore Volume (cm<sup>3</sup>/g)</b>	≥0.2
<b>Na (wt. %):</b>	≤0.1
<b>Fe (wt. %):</b>	≤0.01
<b>H<sub>2</sub>O (wt. %):</b>	≤1.5
<b>Binder (silica) Content (wt. %):</b>	≤30
<b>Water Absorption (wt. %):</b>	≥20



Typical Photos of ACS Material Molecular Sieve Carbon Dioxide Adsorbents

### 3. Application Fields

- 1) Liquid-gas separation
- 2) Adsorbents

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