



Technical Data Sheet

ACS Material Mesoporous Molecular Sieve ZSM-5 Adsorbent

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: 050117

1. Preparation Method

Hydrothermal Method

2. Characterizations

ZSM-5 Adsorbent: Hydrophobic Zeolite Adsorbent (Product Code: G-300) and Binder-free Hydrophobic Zeolite Adsorbent (Product Code: G-360).

Product Code:	G-300	G-360
Shape:	Granular	Granular
SiO ₂ /Al ₂ O ₃ Molar Ratio:	300	360
Dimension (mm):	2.0-3.0	1.0-3.0
BET surface area (m ² /g):	≥220	≥340
Bulk Density (kg/m ³):	~0.68	~0.68
Compressive Strength (N/mm ²):	≥25	≥40
Na ₂ O (%):	≤0.2	≤0.2
Comparative Crystallinity (%):	≥90	≥90
Adsorption of Hexane (W%):	≥7.2	≥9.6
Adsorption of Water (W%):	≤2	≤2

3. Application Fields

- 1) Oil refining
- 2) Sorbents
- 3) Catalytic degradation of LDPE
- 4) Separating and extracting of aromatics isomers
- 5) Removing formaldehyde and harmful volatile organics
- 6) Liquid-gas separation
- 7) Light Alkanes Dehydrogenation Progress in Chemistry
- 8) Aromatization of Propane
- 9) Para-Selective Dealkylation and Vapor Phase Beckmann Rearrangement
- 10) Separation of Acetic Acid from Water

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.