



Technical Data Sheet

ACS Material Mesoporous Molecular Sieve ZSM-5 Adsorbent

Table of Contents

[1 – Preparation Method](#)

[2 – Characterizations](#)

[3 – Application Fields](#)

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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):	1.0-3.0	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

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