



Technical Data Sheet

ACS Material ZSM-5 Series Zeolite Powder

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1. Preparation Method

Hydrothermal Method

2. Characterizations

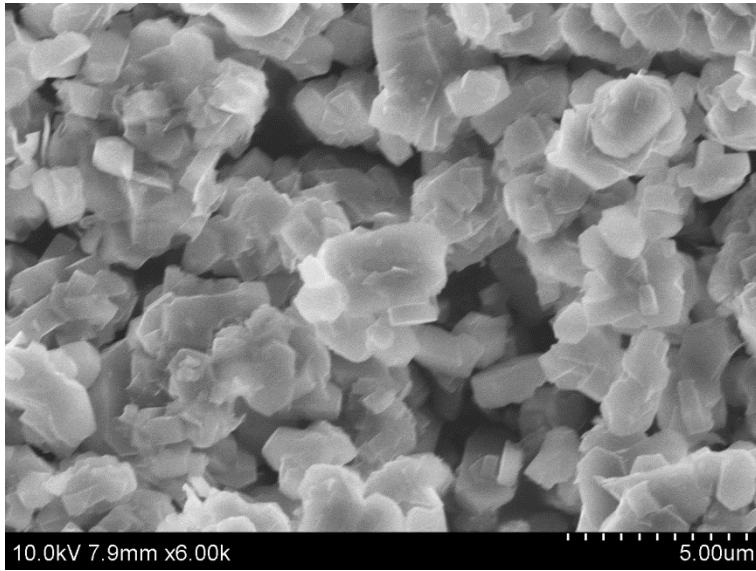
Type	Form	SiO ₂ /Al ₂ O ₃ Molar Ratio:	Average Particle Size (μm):	BET surface area (m ² /g):	Na ₂ O (%):	Adsorption (wt%):
P-25	H+	~25	2-5μm	>=340	--	--
P-38	H+	~38	2μm	>380	<0.2	≥9.5
P-38-Na	Na+	~38	2μm	>380	--	≥9.5
P-117	H+	~117	2μm	>380	<0.2	≥9.5
P-360	H+	360	2μm	>380	<0.1	≥9.5

ACS Material provides high-quality ZSM-5 Series Zeolite (MFI) powder at an excellent price accompanied by our outstanding customer service. Our ZSM-5 powder is calcined and ready to use directly. It can be reactivated by calcination at 550 °C in air. Increase the temperature by a step of 10°C per minute and heat it at 550°C for about 5-6 hours.

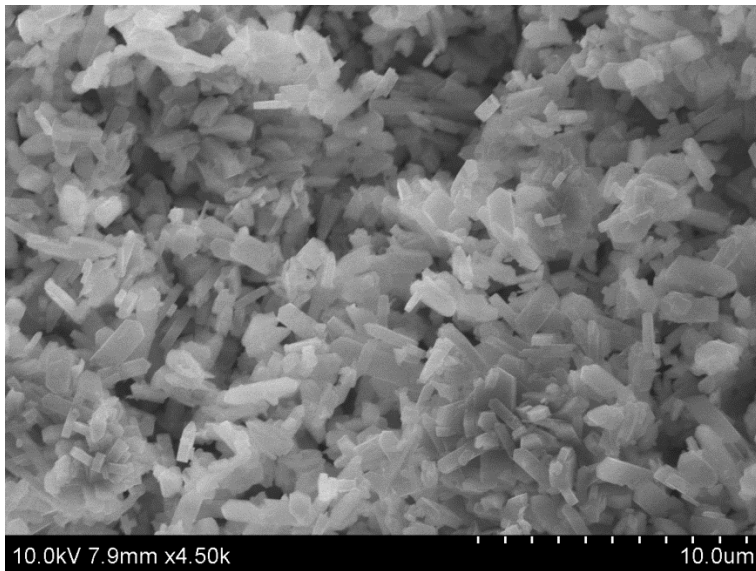
Type	SAR (SiO ₂ /Al ₂ O ₃)	Na ₂ O (%):	Morphology	Particle Size D50 (μm)	BET surface area (m ² /g)	Relative Crystallinity (%)	Applications
P-1500s	>1500	<0.1	Single crystals	<15	>350	>90	Adsorbent, Catalyst, VOC, Isomers Separation
P-1500p	>1500	<0.1	Single crystals	<15	>350	>90	Hydrophobic Adsorbent, Catalyst, Isomers Separation
P-1200s	900-1500	<0.1	Single crystals	<15	>350	>90	Catalyst, Adsorbent, VOC

P-800s	700-900	<0.1	Single crystals	<15	>350	>90	Catalyst, Adsorbent, VOC
P-600s	500-700	<0.1	Single crystals	<10	>350	>90	Catalyst, Adsorbent, VOC
P-400s	350-450	<0.1	Single crystals	<10	>350	>90	Catalyst, Adsorbent, VOC, MTP/MTPG
P-300s	250-350	<0.1	Single crystals	<10	>350	>90	Catalyst, Adsorbent, VOC, FCC ZSM-5 Additive for Octane Enhancement
P-200s	160-230	<0.1	Single crystals	<10	>350	>90	Catalyst, catalyst carrier, Methanol and toluene alkylation
P-150s	140-160	<0.1	Single crystals	<10	>350	>90	Catalyst, catalyst carrier
P-120s	110-130	<0.1	Single crystals	<10	>350	>90	Catalyst, catalyst carrier
P-30n	25-35	<0.1	Aggregates of nano crystals	<5	>350	>90	Catalyst, catalyst carrier, MTA/FCC ZSM-5 Additive for C3=, Dewaxing Alkylation, Dealkylation, Oligomerization
P-20s	18-25	<0.1	Aggregates of nano crystals	<5	>350	>90	Catalyst, catalyst carrier, MTA

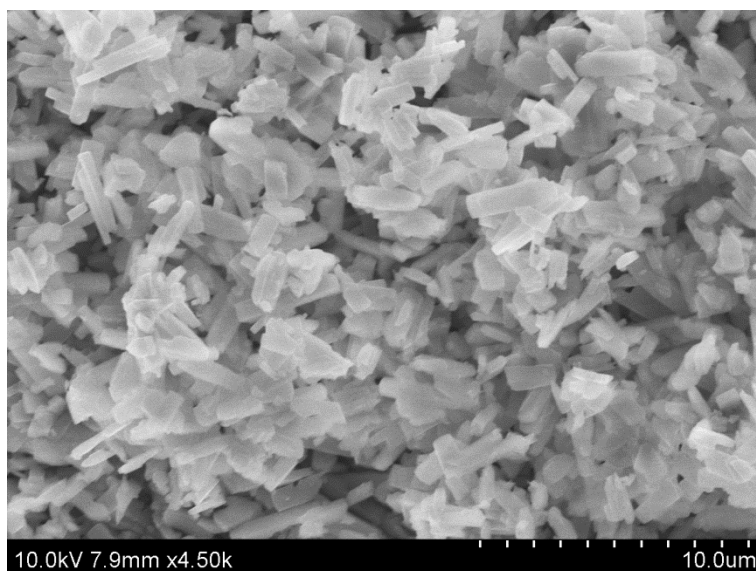
For the products listed as NOT calcines, heat at 500-530°C for at least 3 hours. Time should be adjusted based on the total quantity of the product. Please contact us for calcination services, pricing and lead time.



Typical SEM Images of ACS Material ZSM-5 Series Zeolite Powder P-38



Typical SEM Images of ACS Material ZSM-5 Series Zeolite Powder P-117



Typical SEM Images of ACS Material ZSM-5 Series Zeolite Powder P-360

3. Application Fields

- 1) Catalysts
- 2) Adsorbents

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