



Technical Data Sheet

ACS Material MoS₂ Powder (1.5 μm, 15μm)

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Contact Information:

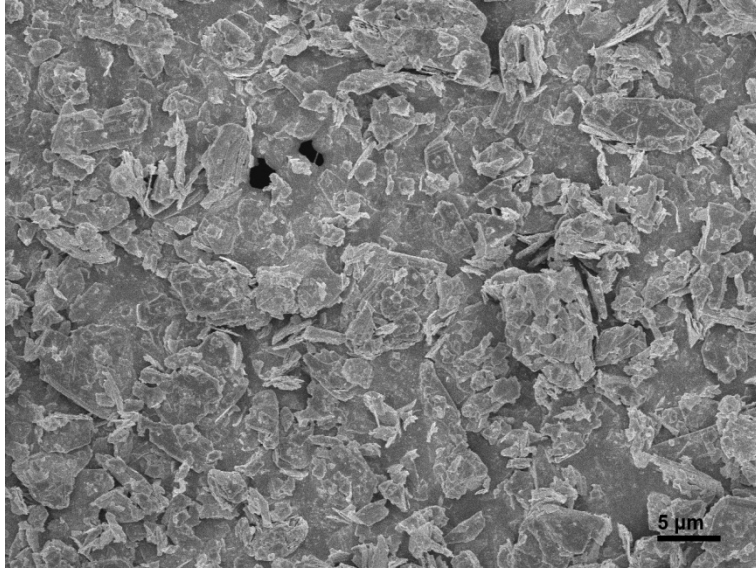
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1. Preparation Method

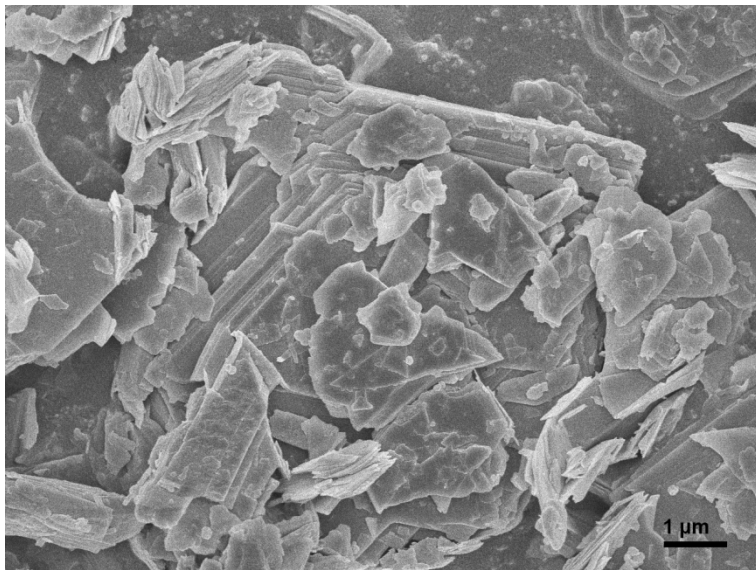
Dry Method

2. Characterizations

	Composition	Content (%)	
		Specification (Theoretical value)	Tested value
Composition Content	MoS ₂	≥98.5%	98.8%
	Acid Insoluble	≤0.3	0.18
	Fe	≤0.2	0.17
	MoO ₃	≤0.1	0.05
	H ₂ O	≤0.1	0.07
	Oil	≤0.15	0.1
	C	≤0.5	0.45
	Acid Number (calculate by KOH mg/g)	≤0.5	0.17
	SiO ₂	≤0.1	0.05
	T3Cu Corrosion test (24h,100℃)	qualified	
Average size D50	1.5 μm		
Acid-base property	Neutral		

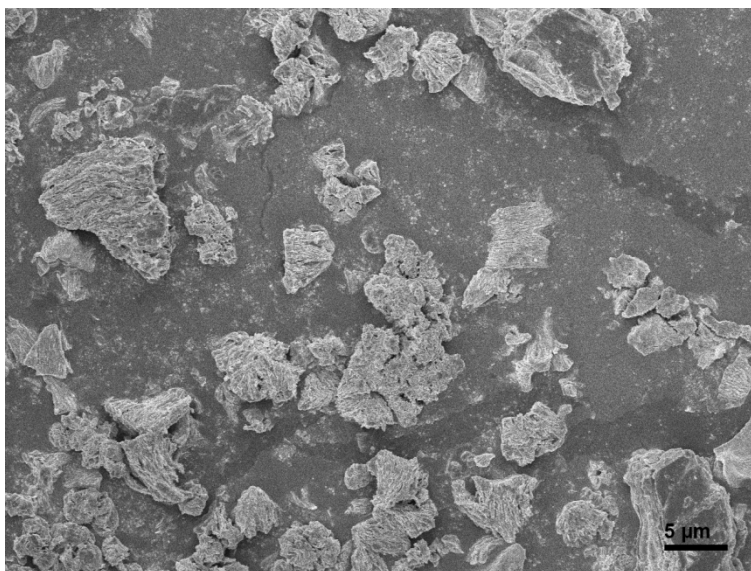


Typical SEM Images of ACS Material MoS₂ Powder 1.5 μm

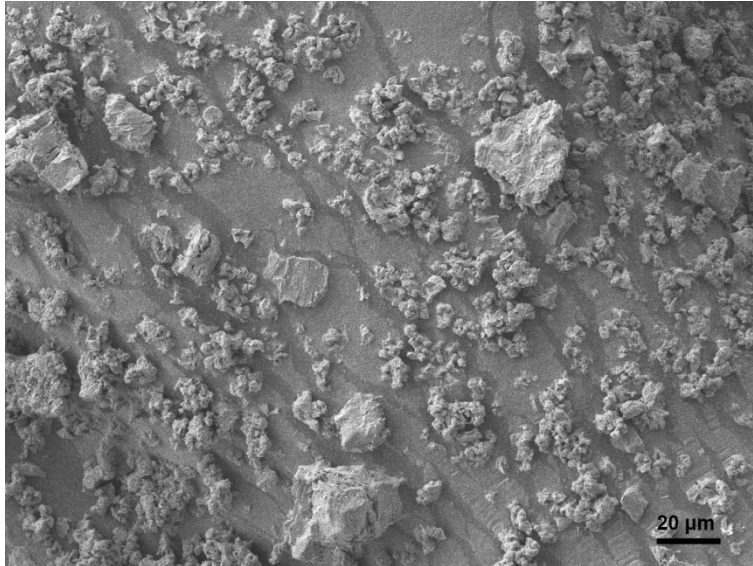


Typical SEM Images of ACS Material MoS₂ Powder 1.5 μm

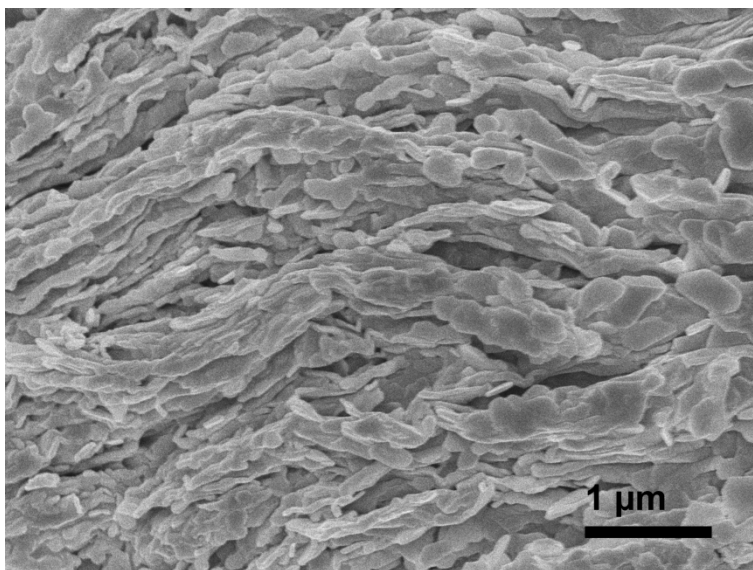
	Composition	Content (%)		
		Specification (Theoretical value)	Tested value	
Composition Content	MoS ₂	≥98.8%	98.85%	
	Acid Insoluble	≤0.10	0.02	
	Fe	≤0.0050	0.003	
	MoO ₃	≤0.010	0.003	
	H ₂ O	≤0.010	0.009	
	Acid Number (calculate by KOH mg/g)	≤0.1	0.035	
	SiO ₂	≤0.04	0.012	
	T3Cu Corrosion test (24h,100°C)	qualified		
	Average size D50	15 μm		
FSSS	5.6 μm			
Acid-base property	Neutral			



Typical SEM Images of ACS Material MoS₂ Powder 15 μm



Typical SEM Images of ACS Material MoS₂ Powder 15 μm



Typical SEM Images of ACS Material MoS₂ Powder 15 μm

3. Application Fields

- 1) Lubrication material and additives.
- 2) Threaded connection.
- 3) Catalyst for desulfurization in petroleum refineries.

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