



## Technical Data Sheet

# ACS Material Analytical Testing of **BET Specific Surface Area Analysis** ( Powder/Film/Bulk )

### Contact Information:

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: 112020

Test Service	BET Specific Surface Area Analysis
Instrument Model	Mike2020, MikeASAP2460, Mike TriStar II 3flex, Quantachrome AUTOSORB IQ, Quantachrome QUADRASORB SI
Test Content	Microporous/Mesoporous/Macroporous Materials Pore Size Distribution, Specific Surface Area Analysis
Sample Type	Powder/Film/Bulk

**Notes:**

1. Sample requirements: (If the amount of sample is insufficient, the accuracy of the result cannot be guaranteed, and we do NOT offer Free re-testing.)

(1) For bulk/film sample: length/width/thickness < 5 mm.

(2) For powder sample:

- ◆ If SSA > 500 m<sup>2</sup>/g, please provide > 100 mg.
- ◆ If SSA < 100 m<sup>2</sup>/g, please provide > 200 mg.
- ◆ If SSA < 10 m<sup>2</sup>/g, please provide > 0.5~1 g.
- ◆ You can also use this formula to determine the required weight per sample.

$$\text{Sample Weight (g)} = \frac{15}{\text{SSA}}$$

(3) If you do not know SSA, please prepare the sample based on the list below.

Pore Size	Sample Amount Need to Provide
Macropore and Micropore	> 100 mg
Mesopore	> 250 mg

2. Please grind your sample before shipping to us. Generally, the particle size should be less than 3 mm. The test condition is N<sub>2</sub>-77 K. Please contact our staff if you need further assistance.

**3. Please use centrifuge tubes for your powder samples.**

4. All samples are non-returnable and please contact us if you have special requests.

**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.