

BET Sample Submission Form

3Flex / ASAP 2020 / TriStar II Data Sheet
AS_BET_SSF_008

SCCE Ref.












Name: _____ Supervisor: _____
 Department/School: _____ Room Number: _____
 Extension: _____ Email: _____
 Staff/student category (PhD, PDRA, MSc, Placement etc.): _____

Sample Code/Identification: _____ Surface Area (BET) only:
 Date Submitted: _____ Pore information:
 Maximum stable temperature: _____ MUST BE SUPPLIED¹
 Expected surface area (χ): _____ ESTIMATE MUST BE GIVEN²
 Expected Porosity: _____
 Type of material: Microporous (< 2 nm)
 Mesoporous (2 nm – 50 nm)
 Macroporous (> 50 nm)
 Chemical formula: _____
 Previously Submitted: No Yes [No. of times: _____]

Attach Sample Here

[Screw top vial only]

Safety (Tick all that apply). Technical Services reserve the right to refuse samples if they pose a risk to staff. Requests may be forwarded to supervisor(s).

										
Health Hazard	Toxic	Corrosive	Irritant	Flammable	Oxidising	Explosive	Compressed Gas	Dangerous to the environment	Biological	Radioactive

Recommended safety controls: _____
 Additional Information: _____

- Please read the BET Submissions Policy on the front of the BET Analysis Logbook prior to any sample(s) submission.
- ¹All sample(s) will be heated UNDER VACUUM to 50°C less than the temperature supplied, to a maximum of 350°C. Therefore the sample **must be stable** at given temperature.
- If the maximum stable temperature is unknown you **MUST** submit samples for TGA analysis **BEFORE** submitting for BET analysis. Please provide the TGA reference in the 'Additional Information' section above.
- ²A minimum of **0.2 grams dried** sample must be provided for analysis. Additional quantities will be required for samples that exceed 0.2 in the following equation: $2 / \sqrt{\chi}$ grams (where χ = expected surface area).
- Please take into consideration there will still be an element of weight loss during degas/cleaning of pores.
- One (1) submission form required per sample with only a maximum of three (3) samples authorised for submission at any time. Submission of additional sample(s) permitted once these have been analysed and returned.
- Please note that BET analysis time is sample dependant, with sample preparation and analysis requiring a minimum of three (3) days but realistically week(s) to perform a single analysis, pending the nature of the material. Therefore do not expect results in less than two (2) weeks.
- Microporous samples will take longer to analyse and may require further examination.