**NTUST【EM0000017504】(Tecnai FE-TEM (200KV: EDS)) Important Notes for Instrument Reservation:**

1. For those who book the TEM appointment for the first time, please contact our TEM Technical Specialist (Miss. Wu) for further discussion on sample preparation method and type of sample. After discussion, please fill in the form below and send it back to complete the appointment booking process. Appointment will be cancelled if the sample preparation/ sample does not meet the requirements.
2. To avoid any contaminants in the main chamber of TEM, we had set the regulations on sample preparation method and type of sample that allowed to be tested. If the sample preparation or samples itself does not meet the requirements, we have the right to refuse proceed the experiment.

※Powder type samples (nanomaterials/polymers): After the powder type sample/ nanomaterial is dropped on the carbon coated copper TEM grid, **please make sure that the TEM grid is dry at above 80°C for more than 24 hours and store it in a dry box/ under vacuum state.**

※**Magnetic samples and powder type samples that are easily attracted by electromagnetic lens are BANNED on this instrument.** For magnetic samples judgment and alternative sample preparation, please contact Miss. Wu for further discussion.

※Pyrolysis temperature for polymer sample should be above 350°C, and TGA analysis data of the sample should be attached. \*If the TEM main chamber vacuum being affected after insert the sample, the experiment will be immediately ABORT and remove the samples. (Vacuum standard for the main chamber: Gun= 1, Column= 6, Camera <25)

|  |  |
| --- | --- |
| Samples placement position (Arrange the samples accordingly for analyzed) |  |
| Element composition for each sample |  |
| Shape of the sample (particles/ flake/ wire/ rod) |  |
| TEM sample preparation (grinding/ slicing/ FIB). If powder sample, please describe solvent used and preparation process in detailed.  (If you have doubts for your preparation process, please contact Ms. Wu to get technical support) |  |
| Previous data for your sample (XRD/ SEM/ TEM) |  |
| Experiment to conduct (image/ diffraction pattern/ element analysis) |  |
| Expected results (If yes, please provide TEM results for reference) |  |
| University:  Advisor:  Recipient:  Contact no.:  E-mail: |  |
| Shipping Address (incl. ZIP code): |  |
| Others |  |

NTUST Transmission Electron Microscope Lab 20221202

Contact information: TEM Technical Specialist (Miss. Ying-Ying Wu) Tel: (02)2733-3141 #7413、E-mail: ying22.Wu@mail.ntust.edu.tw

Send your sample to: Engineering Building 1 (E1) Room 112, NTUST, No.43, Sec. 4, Keelung Rd., Da'an Dist., Taipei City 106, Taiwan (R.O.C.)