

Powder Sample Submission Form

XRD Lab Project ID: _____

Pre-Experiment information

Name: _____ Research Group or Class: _____

Email: _____ Room #: _____ Phone #: _____

Date: _____

Purpose(s): Class Project Paper Presentation Proposal Characterization (no intent to publish)

Objective(s): Data only Phase ID Crystallite size Strain Unit cell parameters Texture
 Structure Mixture quantification Other: _____

Sample Name: _____

Sample Description: _____

Chemical Formula: _____ Density: _____

Synthetic Route or Source of Sample:

Does your submitted sample contain any hazardous material(s)? no yes *If yes include SDS

Is your sample: Air Sensitive Moisture Sensitive Heat sensitive Cold sensitive

Experimental Information

Instrument: P-XRD SC-XRD → Mo Cu Geometry: reflection transmission capillary

Sample Mount: Zero Background Standard Adjustable Height Al-insert ½mm 1mm Flat
 Loop Capillary: ID=_____ Other: _____

Sample Penetration depth at 90°: _____ Penetration depth at 10°: _____ Path length at 10°: _____

2θ angle(s): _____ Detector distance: _____ Omega _____ Phi _____ Chi _____

Time per step (or image): _____ Step size (P-XRD): _____

Processing: ADS to FDS Correlation → images to correlate: _____

Integration → Theta min _____ Theta max _____ Gamma min _____ Gamma max _____ Step size _____

Notes: