

DRYING & CALCINATION QUESTIONNAIRE

Name:	Title:
Company:	Dept.:
Telephone:	Fax:
Address:	e-mail:
	Altitude:

Product to be dried / calcinate: _____

Nature of moisture to be removed: _____

(Water or solvent? If solvent, detail: formula, vapour pressure and molecular weight under additional remarks)

Production:	kg of dried / calcinated product / hr. and	_____	hrs / day
Moisture of feed product:	%	_____	°C
Moisture of discharge product:	%	_____	°C
Cooling mediums available:	Is dried product to be cooled:	<input type="checkbox"/> YES <input type="checkbox"/> NO	To what temperature? _____ °C

Characteristic of feed product: _____

(Pasty, lumpy, granular, etc.)

Please define previous process: _____

Behaviour of feed product: _____

(Sticky, smears, breaks up readily)

Temp. limit of feed product:	_____ °C	Temp. limit of discharge product:	_____ °C
Reason for temperature limit:	_____		

Is the product hygroscopic? YES NO

Is any water of hydration to be driven off? YES NO

(Give dehydration vs. Temperature data below with heat dehydration)

Electric Power:	V +/- [%]	_____
Frequency	Hz +/- [%]	_____
Phase [1/3]		_____

Chemical formula before drying/calcination: _____

Chemical formula after drying/calcination: _____

Specific heat of solids:	_____ kcal/kg°C	Feed size distribution:	_____
Specific heat of solvent liquids:	_____ kcal/kg°C	Discharge size distribution:	_____
Specific heat of vapour:	_____ kcal/kg°C		
Bulk density of feed product:	_____ kg/m ³		
Bulk density of discharge product:	_____ kg/m ³		

Heat source for drying/calcination: _____

Specification: _____

Steam

Liquid Petroleum Gas

Natural gas

Oil

Other, please specify: _____

Materials for construction: _____

(State whether corrosion or contamination material. Indicate contact preferences)

If moisture to be removed is a solvent, should same be recovered? YES NO

(If yes, answer cooling medium and temperature above)

Does product undergo physical changes in course of drying? YES NO

(State whether product becomes sticky, softens, discolors, etc.)

Product is already being dried, state type of dryer being used: _____

List drying air temperature, drying time, air velocity through/over material, thickness of layer and principle problems:
Additional remarks (Mentioned any expected difficulties in drying this product:
Can a sample of wet and desired dry product be furnished for tests? <input type="checkbox"/> YES <input type="checkbox"/> NO
Cite specific handling precautions in laboratory: