

DRYING AND GRINDING QUESTIONNAIRE

Data on Material to be Processed

It is a corporate policy of IPEC that no material will be processed or tested without adequate data on material properties to ensure proper safeguarding of employee safety and equipment integrity. In addition, complete information aids in optimizing processing conditions and in minimizing equipment design problems. IPEC reserves the right to decline handling any material for which complete information is either not supplied or not available.

In order to determine how much material will be needed to make complete tests on size reduction, the control plant must have a small hand sample of the feed material, and of the finished material, if it is presently being produced.

Date: _____

Sample No. _____

(assigned at IPEC Plant)

Material: _____

For: _____

(name)

MARK ALL CONTAINERS WITH: NAME OF MATERIAL, COMPANY, and any OTHER DESIGNATION used (Code Nbr., etc.). The following data, if readily available will expedite control plant operations:

TYPE OF OPERATION: GRINDING _____ DRYING _____ COMBINED DRYING & GRINDING _____

MATERIAL:

Chemical Name _____ Trade Name _____

Additives (if any) _____

Quantity being sent _____ Value Per Pound _____

Is material insured by you while at our plant? _____

What is the material's end use? _____

IPEC assumes no financial responsibility for materials while in our plant unless agreed to in writing prior to receipt of materials.

PLEASE ADVISE IF THIS MATERIAL IS A FOOD OR DRUG, OR USED AS A COMPONENT IN FOOD, DRUG OR COSMETIC MANUFACTURE.

CHARACTERISTICS OF FEED MATERIAL:

Absolute Spec. Gravity _____ Spec. Heat _____ Scale of Hardness _____

Does it soften when heated? _____ At what temperature? _____ °F

Is high temperature harmful in any way? _____ °F

What is maximum safe temperature? _____ °F

Is it flammable? _____ What is safe temperature? _____ °F

Size of feed material to be processed: _____

Bulk Density: _____

Will material flow easily? _____

Moisture or solvent content of feed: _____ % Type

If wet, is material pumpable? _____ Type of pump: _____

SAFETY CHARACTERISTICS:

Is the powder explosive? _____ Explosive Concentration (Min. & Max.) _____

Explosive Severity Rating: _____
 Is the powder toxic or irritating in any way? _____ TLV _____ LD 50 _____
 Give antidote or treatment _____
 Is the powder a known or suspected carcinogen? _____
 Color _____ Physical Structure _____
 (Granular, Fibrous, Flakes, Crystalline, etc.)
 Is the powder Hygroscopic? _____
 Are the volatiles explosive? _____ LEL, % vol. _____ UEL, % vol. _____
 Are the volatiles toxic or irritating in any way? _____ TVL _____ LD 50 _____
 Give antidote or treatment _____
 Are the volatiles a known or suspected carcinogen? _____
 Normal Handling Procedures For This Material: _____

DESIRED END PRODUCT:

Particle Size Range - Maximum Size _____ Average Particle Size _____
 Method of Determination - Coulter Counter _____ Microscopic _____
 Sieve Analysis _____ Fisher Sub-Sieve _____
 Other _____
 Bulk Density, lb./cu. ft. _____
 Moisture Content _____ % Is color critical? _____
 Color required: _____
 Additives _____ % Solids _____
 Minimum sample required by customer _____ lbs.
 Samples to be sent _____

NOTE - Additives: Designate whether solid or liquid additives are to be incorporated simultaneously with grinding for mixing, blending or coating purposes.

PRODUCTION:

Is material being ground or dried now? _____ How? _____
 What particle size is obtained, if grinding _____
 Hourly production desired _____ lbs. hr. Finished Product

UTILITIES AVAILABLE FOR SIZE REDUCTION OR DRYING AT CUSTOMER'S PLANT:

Steam Supply _____ lb. hr. @ _____ PsiG @ _____ °F
 Compressed Air Supply _____ CFM @ _____ PsiG @ _____ °F
 Electrical Power _____ Volts _____ Phase _____ Cycles _____ KVA
 Natural Gas: Yes _____ No _____

DATA SHEET PREPARED BY:

Signature _____
 Company _____
 Address _____
 Telephone Number _____ Fax Number _____
 E-mail Address _____