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.

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.) ____________

Date: _______________________________
Sample No. __________________________ (assigned at IPEC Plant)
Material: ____________________________
____________________________________
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:

For: ________________________________ (name)
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 ______________________________________________________________

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 _________________________________________________________________________

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