

AGGLOMERATION DATA SHEET

Please provide as much information as is presently available so that we may determine your application requirements. This information, which we will consider confidential, is essential to determine equipment that would be necessary for laboratory tests, budget estimates, and occasionally, to allow us to supply a firm quotation.

How is the agglomeration equipment to be used?

- Completely new product proposed for production.
- Installation in a current process to improve or change the material's properties.
- Improvement of a current agglomeration process.
- Other, specify: _____

Why is agglomeration being considered at this time?

- Improve product properties.
- Reduce dusting.
- Improve efficiency in a current process.
- Other, please specify: _____
- To produce a specific size & shape.
- Meet a competitive condition.
- Reduce process costs.

We are interested in:

- Agglomerating systems in general.
- Agglomeration for reduced dusting and increased ease in handling / transport.
- Compaction/granulation for a hard granular material.
- Briquetting for a definite shape and size.
- Low Pressure extrusion for a pellet or sphere shape.
- Agglomeration for easy dispersion, dissolution.
- Agglomeration prior to tableting on form or die pressing.
- Other: _____

Our immediate need is for:

- Product and/or process development.
- Costs for pilot plant testing.
- Budget estimate for economic evaluation.
- A detailed proposal and quotation, if obtainable from this information.

Materials to be processed: _____

Bulk Density: _____ lb/ft³ kg/m³

Specific Gravity: _____

Screen Analysis of feed material:

95% < _____ mesh μ
 50% < _____ mesh (avg.) μ
 5% < _____ mesh μ
 _____ % > _____ mesh μ

Moisture / Liquid present in feed material:

Total: _____% Free: _____%

Water Other volatiles, please specify: _____

Maximum temperature the material can withstand without damage: _____°F, _____°C
 Estimated feed temperature to the agglomeration process: _____°F, _____°C
 Melt point of feed material, if it melts without damage: _____°F, _____°C

Physical nature of the material:

Sticky Abrasive Corrosive
 Hygroscopic Combustible Aerated
 Other: _____

Does a reaction take place in the process? No Yes If yes, please describe:

The material can cannot be processed in contact with the gases of combustion.

A special atmosphere is required for processing. Please specify:

The material contains combustible matter.

Combustible matter: _____ Percentage by weight: _____

Estimate Btu/pound: _____ K_{ST} value: _____

What operation(s) will be performed immediately before the agglomeration step?

Estimated production rate required: _____ tons/hour pounds/hour Kg/hr

Final product desired, shape and size:

- Briquettes: _____ x _____ x _____ (L x W x H).
 Granular material: - _____ mesh by + _____ mesh, 95% < _____, 5% < _____.
 Pellets: _____ diameter by _____ length
 Other: _____

Moisture (or solvent) that may remain in finished product: _____ %.

Some materials are agglomerated using water only, or are briquetted or compacted by pressure alone. However, in some cases, a binder is used to aid agglomeration. Please state whether the addition of a binder is permissible with your product:

- Yes Suggested binder(s): _____
 No If no, why not?: _____

Operation will be continuous intermittent batch

Estimated production time: _____ hours/day, _____ days/week, _____ days/year, _____ hours/year.

Electrical power available: _____ volts _____ cycles _____ Hertz (hz).

- Area classification:
- non classified, TEFC, IEC
 - sanitary washdown, BIISC
 - explosion proof - dust
 - explosion proof - vapor
 - other, specify: _____

This data is supplied by:

Date: _____ Your Project Ref.: _____
Name/Title: _____
Company: _____
Address: _____
Phone/Fax: _____
Email: _____

May we contact you directly for additional information? Yes No

In your absence, who should be contacted that is familiar with this project?

Name/Title: _____
Phone/Fax: _____
Email: _____
Address, if different: _____

Other Comments:

-- MATERIAL DATA SHEET --

Powder(s):	#1	#2	#3	#4
Component Name:				
Bulk Density (lb/ft ³ or g/L):				
% of Formulation:				
% Moisture in feed:				
95% > _____ (micron):				
Avg. Size _____ (micron):				
5% > _____ (micron):				

Liquids(s):	#1	#2	#3	#4
Component Name:				
Specific Gravity:				
% of Formulation:				
Viscosity (cP) @ T (°C):				
% Solids (if applicable):				