

Process Industries Project Worksheet

Date: _____

Customer Information

Customer Name: _____

Company Contact: _____ Title: _____

Address: _____

City: _____ State: _____ Zip: _____

Country: _____

Phone: _____ Email: _____

Webiste: _____

1. Name of Material _____ Amount: _____ Value: _____

2. a.

Component or Chemical Formula	Important Physical Properties* (e.g., bulk density, liquid viscosity, particle size)

*NOTE: Please attach material specification data sheets (MSDS), laboratory analyses, or other important physical and chemical property data for the individual constituents listed above. Include representative screen analyses for solids components.

b. What is the purpose of the mixing operation:

Final product? _____

Initial or intermediate step (specify)? _____

Feed to agglomeration process? _____

c. Does material need to be heated or cooled? _____

d. Temperature required for mixing: _____

e. Do ingredients react/interact to cause heat rise during mix? _____

If so, what is the temperature rise? _____

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- f. What happens if these temperatures are exceeded? _____
- g. What is the largest particle size in mix? _____
4. Crushing permissible? _____
5. Unusual characteristics (hygroscopic, volatile, corrosive): _____
6. Normal moisture tolerances: _____
7. Abrasive (containing silica, quartz, etc.)? _____
8. Present method of preparation? _____
9. How long presently mixed? _____ In what capacities? _____
10. Production capacity per hour required (Min. and Max.): _____
11. Characteristics of final product from mixer: _____
12. Technique for mixing efficiency or end product determination: _____
13. What is the end use of product? _____
14. Solubility, and fluids recommended for cleaning mixer: _____
15. Special testing and design considerations: _____
- Preferred materials of construction _____
- Materials of construction to be avoided _____
- Are any of the materials to be handled corrosive to: Carbon Steel? _____
- 304 or 316 SS? _____
- Does operation require dust removal system? _____
16. Power available at your plant: Volts _____ Phase 3 _____ Cycles _____
17. Material handling precautions: _____
- Raw materials and/or final mixed product:
- Toxic? _____
- Flammable? _____
- Toxic by: Inhalation _____ Ingestion _____ Absorption _____
- Degree of toxicity: Irritant _____ Temporary _____ Permanent Injury _____
- Recommendations for handling raw materials and final mixed product: _____

Comments:

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