

DRUM-MATES® Inc., Process Equipment Div.

Application Questionnaire for Liquid Processing Equipment

Help us recommend the right equipment more quickly...

To help us confirm the best equipment for your application, answer every question you can. Thank you

Print or type and check or circle the correct answers. If you do not have the application details for your materials, please Google them, or ask your Supplier or us for assistance. Return by Email: info@drummates.com, or Fax: 609-261-1034.

Add Additional Pages if necessary. Copy & Fill separate Questionnaires for each Application

Date: ___ / ___ / ___ Contact Name: _____

Company _____ Address _____

Email: _____ Tel: _____ Fax: _____

Additional Contact Details: _____

Details about your Mixing & Pumping Application in Drums, IBCs (Totes) or Tanks

Describe in detail your equipment requirement and its application. Use photos and additional pages if needed.

_____, Sanitary, Explosion Proof

1. **Name Liquid ingredients & percentage concentration:** _____

2. **Container Specifications:** 5 gal, 55 gal, tank-tote-IBC _____ gal, Other _____ gal.

Drum/Tank Specifications: Plastic Lined, Inside Depth: _____", Length: _____", Width: _____", Height: _____" (no pallet)

Container Type: Fiber, Mild steel, Stainless steel, Plastic, Tote Type: Wire / Tubular Frame Yes No

Other: _____

3. **Drum-IBC-Tank Specifications:** 2" NPT Bung, 3/4" Npt Bung, Open Drum, 6" IBC Fill Port, Other Port _____ "

Coarse Metric Thread OD, _____ mm, Thread Pitch _____ mm Other Opening: Size & Type: _____

4. **Liquid Characteristics: Thickness:** _____ Cps (Centipoise), Specific Gravity _____, lbs./ft.³, Process Temp _____ °F

pH _____, Food or Consumable? Yes No, Flammable Yes No, Volume: _____ US Gallons

Fluid Depth: _____ inches, Particulate Size _____ inches, Particulate settles in: _____ Minutes, Hours, Days

5. **Liquid Agitation Frequency:** Batch _____ x per _____ day, week, month (circle one), Continuous blending

6. **Liquid Agitation Intensity:** (Circle, on a scale of 1-10) Strong = 10 9 8 7 6 5 4 3 2 1 = Gentle

7. **Liquid Foaming Sensitivity:** (Circle, on a scale of 1-10) Stable = 10 9 8 7 6 5 4 3 2 1 = Sensitive

8. **Liquid Shear Sensitivity:** (Circle, on a scale of 1-10) Stable = 10 9 8 7 6 5 4 3 2 1 = Sensitive

9. **Air Drive Specifications:** _____ Hp, Air Usage > _____, Cfm _____, Psi, Exhaust Extension Required? Yes, No

10. **Electric Drive Specs:** _____ Hp, _____ Volts, _____ Cycles, _____ Hz., _____ ODP, _____ TEFC, _____ Explosion-proof

11. **Select Mixer Entry Type:** 2" Npt Bung, 6" IBC Port, Rim Mixer, Open Drum, Rim Mixer, Open Tank

Specify Rim Thickness _____", Specify Drum or Tank Rim Material of Construction _____

12. **Mixing Impeller Type:** DRUM-MATES to recommend > _____, Shaft length: _____", Impeller Diameter _____"

Hi-Shear Action, Hi-Flow Action, Hydrofoil, Stainless Steel Mixing Prop, PVC coated Mixing Propeller,

Turbine Blade Impeller, Folding Blade Impeller, PVC Coated Impeller, PTFE (Teflon®) Turbine Impeller:

Other Mixer Drive, Shaft or Impeller Specification: _____

13. **Pump Type Required:** Hand, Piston, Hand, Lever Operated, Hand, Reciprocating, Hand, Rotary style, Air Op., Centrifugal, Air Op., Double Diaphragm, Centrifugal, Electric, Drum, Centrifugal, Electric, Tote,
14. **Pump Discharge Port:** 1" Hose-barb, 1" Female-NPT, 1.5" Tri- Clamp, 1.25" Male-BSP, Other _____
15. **Pump Tube length:** 27" (5 gal.), 39" 55 gal.), 45" (IBC), 60" (Tank), Other ___" Specify _____
16. **Pumping Questions:** Flow Rate Desired ___ Gpm, ___ Ft. Head, ___ Ft. Transfer Distance, Other: _____
Other Pumping Details: _____
17. **Hand Dispensing Nozzle:** Polypropylene, Aluminum (SS & PTFE), 316 Stainless (& PTFE), PTFE (Teflon®)
18. **Hand Nozzle Connections:** ½" Hose-barb, ¾" Hose-barb, 1" Hose-barb, 1" Tri-Clamp, Flow Rate: ___ Gpm
19. **Transfer Hose Length** ___ Ft., Size: ___", Npt, Barb, Tri-clamp, Male, Female, One End, Each End
20. **Hose Core, Material Type** _____, PTFE Core, Convuluted, Smooth bore, Sheath Hose-Guard
21. **Special Application Details:** _____

Heating Application Questions for Drums, IBC (Totes) and Tanks

Note: Mixing while heating can shorten both heat-up and mixing batch time in some applications.

Describe in detail your heating equipment requirement and its application.

1. **Lowest Area Temperature:** ___ F°, ___ C°, **Preferred Target Temp:** ___ F°, ___ C°
2. **Heater type:** Drum full wrap, Drum base, Drum metal band, Drum silicone band, Drum clam-shell, Drum insertion heater, IBC full wrap, IBC base, Cabinet heater, 2-drum, Cabinet heater, 4-drum
3. **Drum or IBC Full-wrap insulator, Requirements List:** 1" thickness, 2" thickness, insulated top cap
4. **Liquid Specs:** Thickness: _____ Cps, Specific Gravity: ___ lbs. / ft.³, Specific Heat: ___, BTU / Lbs. per F°
5. **Non-Contact Temperature:** (Maximum Liquid Heating Limit) ___ F°, ___ C°
6. **Preferred Heating Time:** _____ Hrs., **Projected Heating Time:** _____ Hrs.
7. **Electric Requirements:** ___ Volts, ___ Cycles, ___ Hz., ___ ODP, ___ TEFC, ___ Explosion-proof
8. **Other Heating Info:** _____
9. **Flammability:** Are you heating a flammable liquid or in a flammable area? ___ Yes, ___ No
10. **Flash Point:** ___ F°, ___ C° (heating flammable materials may require special equipment and conditions)

If you have more heating, mixing or pumping application processing details or need equipment recommendations, part number(s), have Questions or Feedback, please include here or on a separate page.

Email or fax this to: info@drummates.com, Fax: 609-261-1034 - We'll respond shortly.

Ask for literature on DRUM-MATES® drum & tote mixers, drum tumblers, drum & tote pumps & hand dispensing nozzles.
DRUM-MATES® Inc., Process Equipment Div., E: info@drummates.com, Tel: 609-261-1033, Fax: 609-261-1034