SPXFLOW
Lightnin Plenty

APPLICATION DATA SHEET

Form No	REV
JR 23 069	0
Sheet: 1	of 2

Completing this form will help facilitate an accurate assessment of the most suitable agitator for your particular application.

Completed By :
Company :
Address :

Tel No. :
Fax No. :
e-mail :

MIXING REQUIREMENTS

Duty

Batch ☐ If batch, state required blend or process time: _____ (minutes)

Continuous ☐ If continuous state process flow rate: _____ (gpm)

Working Volume

Normal _____ Gal Max _____ Gal Min _____ Gal

Varying Liquid Level ☐ Y/N Mixer required to operate during filling / emptying ☐ Y/N

Required Mixing Process

Blending Miscible Liquids ☐	Homogenization ☐	Solids Make-Down ☐
Solids Suspension ☐	Dissolving ☐	Heat Transfer ☐
Flocculation ☐	Gas Dispersion ☐	Aeration ☐

Required Process Result of Agitation :

NATURE OF LIQUIDS

Component Units	Quantity Gallons	Rate of addition Gallons / Minute	Viscosity cP	Density Lbs./Gallon	Temp. °F
1					
2					
3					

Liquid Behavior Newtonian ☐ Non-Newtonian ☐

If the liquid behavior is Non Newtonian is viscosity vs. shear rate data enclosed? ☐ Y/N

Foaming Tendency None ☐ Mild ☐ Strong ☐

NATURE OF SOLIDS

Component Units	Quantity Lbs.	Solids wt %	Rate of addition Lbs. / hr	Density Lbs. / ft3	Settling Velocity Foot / Minute	Degree of Suspension
1						
2						

Are any of the solids soluble? Yes ☐ No ☐

Other specific properties of the solids

Abrasive ☐ Sticky ☐ Hard ☐ Uniform Size ☐

Varying size ☐ Fibrous ☐ Do solids wet easily? ☐ Y/N

Please Provide solids size distribution if possible

NATURE OF GAS

Component Units	Quantity SCFM	Viscosity cP	Density Lbs. / ft3	Pressure PSI(g)	Temp. °F
1					
2					

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VESSEL DATA

Tank Details - (Please enclose a sketch or drawing)

Open Tank ☐ Mounting Beam Height _____ inches

Closed Tank ☐ Mounting Nozzle Height _____ inches Flange Size _____ Flange Rating _____

Vertical ☐ Horizontal ☐

Dimensions

Diameter _____ inches Length of straight side _____ inches

Rectangular _____ inches Long x _____ inches Wide Depth _____ inches

TOP: Flat ☐ ASME ☐ 2 : 1 ELLIP ☐ Cone ☐ Other _____

BOTTOM: Flat ☐ ASME ☐ 2 : 1 ELLIP ☐ Cone ☐ Other _____

OPERATING CONDITIONS

Operating

Temperature _____ °F Min _____ °F Max Pressure _____ PSI(g) Min _____ PSI(g) Min

Design

Temperature _____ °F Min _____ °F Max Pressure _____ PSI(g) Min _____ PSI(g) Min

Required Mixer Design

Temperature _____ °F Min _____ °F Max Pressure _____ PSI(g) Min _____ PSI(g) Min

MIXER REQUIREMENTS

Mounting Preference

Portable - Clamp Mount ☐ Portable - Cup Plate Mount ☐

Top Entering ☐ Bottom Entering ☐ Side Entering ☐

Static In-Line ☐ Dynamic In-Line ☐ MagMixer ☐

Seal Type (If required)

Lip Seal ☐ Stuffing Box ☐

Single Mechanical Seal ☐ Double Mechanical Seal ☐ Other _____

Drive Type

Electric ☐ Supply _____ Volts _____ Phase _____ Hz

Area Classification _____ Max Ambient Temperature _____ °F Max

Pneumatic ☐ Available Air Pressure _____ PSI(g)

Hydraulic ☐

Steady Bearings

Permitted ☐ Not Permitted ☐

Acceptable Materials of Construction

Mild Steel ☐ Stainless Steel ☐ Grade _____

Monel ☐ Grade _____ Hastelloy ☐ Grade _____

Titanium ☐ Grade _____ Other _____

Covering Required ☐ Y/N Specify covering required _____

Is a Mixer currently used on this application? ☐ Y/N

If Yes please give details and level of performance