

# QUESTIONNAIRE

## Topic Static Mixers



**SCHWING**  
Verfahrenstechnik GmbH  
47497 Neukirchen - Vluyn  
Postfach 10 12 52  
Germany  
Telefon (0 28 45) 930 - 0  
Telefax (0 28 45) 930 - 100  
E-Mail: mail@schwing-pmt.de  
http://www.schwing-pmt.de

Schwing Verfahrenstechnik GmbH  
Postfach 10 12 52

**47497 Neukirchen-Vluyn  
GERMANY**

Company: \_\_\_\_\_  
Branch: \_\_\_\_\_  
Name: \_\_\_\_\_  
Department: \_\_\_\_\_  
Tel.: \_\_\_\_\_ Fax: \_\_\_\_\_  
Street: \_\_\_\_\_  
City: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

### PROCESS DESIGN ENGINEERING DATA

- Description of Application (sketch on separate page): \_\_\_\_\_

Component		1	2	3	Mixture
Fluid Name					
Flow Rate	minimum				
	normal				
	maximum				
Viscosity* 1)	Pas				
Density*	kg/m <sup>3</sup>				
Temperature (Operating)	°C				
Pressure (Operating)	barü				

\* @ operating temperature 1) If material viscosity changes with shear rate, please supply viscosity versus shear rate curves.

- Maximum Allowable Pressure Drop Across Static Mixer: \_\_\_\_\_ bar
- Solubility: Are the Components Soluble in each-other?  Soluble in every ratio  Insoluble in each-other
- Degree of Mixing Desired:  Low  Medium  High Describe Your Real-World Criterion for Measuring.  
Desired Mixing Quality: \_\_\_\_\_
- Feeding of Components to Static Mixer:  Uniform Flow  Pulsating Flow: Pulsation Frequency = \_\_\_\_\_
- Reaction: Is there a reaction occurring between the feed components?:  Yes  No

### MECHANICAL DESIGN ENGINEERING DATA

- Schwing Supply:  Mixing Elements Only  Housing + Mixing Elements
- Preferred Mixer Pipe Diameter & Schedule-or-Special Pipe Inside Diameter: \_\_\_\_\_  
Maximum Allowable Mixer Length: \_\_\_\_\_ mm Mixing Elements:  Removable  Welded
- Flow Direction:  Horizontal  Upward Vertical Flow  Downward Vertical Flow
- Materials of Construction: Mixing Elements: \_\_\_\_\_ Pipe: \_\_\_\_\_ Flange: \_\_\_\_\_
- Pipe End Connections:  Plain Ends  Ends Prepared For Welding  Threaded Ends  
 Flanged: Type: \_\_\_\_\_ Rating: \_\_\_\_\_

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