Sulzer Heat Exchanger & Reactor Questionnaire



Client Information		
Company name Contact person Street Postal code, city Country Phone number E-mail address Your reference Date		
Description		

Sulzer Chemtech Ltd.
Polymer Technology

P.O. Box 65 8404 Winterthur, Switzerland Phone +41 52 262 3749 Sulzer Chemtech USA Inc.
Polymer Technology

1 Sulzer Way Tulsa, OK 74131, USA Phone +1 918 446 6672 Sulzer Chemtech Pte. Ltd.

Polymer Technology 10 Benoi Sector 629845 Singapore Phone +65 6515 5500

Sulzer Heat Exchanger & Reactor Questionnaire



Process Data

Product Side

Product name					
Fluid class / category	1)				
Product flow rate		min	norm.	max	<u></u>
Composition of product					
				<u></u>	
					
		-			
		Ir	nlet	Outlet	
Temperature		_			
Density					
Specific heat capacity		-			[
Thermal conductivity		-			
Absolute viscosity	2)				
_	2)	=			
Vapor pressure					
Inlet pressure					
Max. allowable pressure dro	-	-			
Max. allowable residence tir	ne				
Fouling factor					[
Reaction heat	3)				
Jacket required			·		

Heat transfer fluid Flow rate [kg/h] <u>Inlet</u> <u>Outlet</u> [°C] Temperature Density $[kg/m^3]$ Specific heat capacity [kJ/kg°K] [W/m°K] Thermal conductivity Absolute viscosity [mPas] Max. allowable pressure drop [bar] Min. allowable velocity [m/s] Fouling factor [m²°K/W]

- 1) Group 1 comprises fluids defined as exposive, flammable, toxic and oxidizing Group 2 comprises all other fluids
- 2) Please provide viscosity curves in function of shear rate (0 100 1/s) and at different temperatures covering the operating range of the product and heat transfer fluid.
- 3) Please provide comprehensive information on reaction heat to be removed and reaction kinetics.
- 4) Please indicate type, make and provide heat transfer fluid description and physical properties.

Sulzer Heat Exchanger & Reactor Questionnaire



Mechanical Data				
Design code Bundle removable Space limitations Installation	5) 6)			
Design temperature Design pressure Material of construction Preferred connections inlet Preferred connections outlet		Product Side	Energy Side	[°C] [barg]
Remarks				

- 5) Bundle or mixing elements to be removable.
- 6) Horizontal, inclined (indicate angle from horizontal), vertical flowing up or vertical flowing down.