

Inquiry data sheet In-line Reaction Technology



Contact:

Company: Phone: Project / Inquiry-Nr:
 Name: Fax: Inquiry requested until:
 Street: E-Mail:
 ZIP/Town: Country: Only budget quotation: ☐ Yes ☐ No

Inquiry:

Reaction Data:

	Unit:	Educt	Additive 1	Additive 2	Product
Name fluid:	[-]				
Flow minimal:	[kg h ⁻¹]				
Flow normal:	[kg h ⁻¹]				
Flow maximal:	[kg h ⁻¹]				
Density:	[kg m ⁻³]				
Viscosity:	[mPas]				
Specific heat capacity:	[J kg ⁻¹ K ⁻¹]				
Thermal conductivity:	[W m ⁻¹ K ⁻¹]				
Temperature at the beginning:	[°C]				

Reaction control: ☐ Polytropic ☐ Adiabatic ☐ Isothermic ☐

Order of reaction: ☐ 1. order ☐ 2. order ☐

	Unit:	Substrate
Molaric weight:	[g mol ⁻¹]	
Enthalpie of substrate:	[J mol ⁻¹]	
Molaric flow rate:	[mol h ⁻¹]	
Desired turn-over:	[%]	
Desired residence time:	[s]	
Start temperature:	[°C]	
Adiabatic temperature rise:	[°C]	
Allowed tolerance of temperature:	[°C]	
Temperature after reaction:	[°C]	

	Unit:	Heating/cooling stream
Name fluid:	[-]	
Flow:	[kg h ⁻¹]	
Temperature:	[°C]	
Density:	[kg m ⁻³]	
Viscosity:	[mPas]	
Specific heat capacity:	[J kg ⁻¹ K ⁻¹]	
Thermal conductivity:	[W m ⁻¹ K ⁻¹]	

Mechanical Data:

Design: ☐ Contiplant ☐ Production line ☐
 Material: ☐ 316 Ti / 316 L ☐ Tantal ☐ Hastelloy C22 ☐
 Reactor: Max. allowed pressure: bar Max. allowed temperature: °C
 Heating jacket: Max. allowed pressure: bar Max. allowed temperature: °C

Description of the reaction and remarks: