

QUESTIONNAIRE HIGH VISCOSITY-TECHNOLOGY

The following information will enable us to establish the needs necessary in attaining the correct choice of the high viscosity technology and allow us to follow through with the precise testing required.

Product / Project :

(Key words)

Process: Devolatilization Concentration Reaction Resources Recovery

Shall your application be treated in strict confidence: yes no

Company's name:

Departement:

Adress:

Person in charge of the project:.....

Phone No.:

Fax No.:

E-Mail:

Date:

Signature of interested party:.....

1. Composition

1.1 Designation of high viscosity component(s):

1.2 Designation of volatile component(s):

2. Feed

2.1 Composition..... in % by weight

2.2 At what temperature is the product available°C andbar g

2.3 The viscosity under these conditions isPa.s

2.4 Further remarks

.....

3. Product

3.1 Desired residual content of volatiles in % by weight

3.2 The product is thermoplastic elastic

3.3 Highest allowable temperature,
to which the product may be exposed up to a max. of 3 min. max°C

3.4 Further remarks

.....

4. Destillate

4.1 Required purity

4.2 Further remarks

.....

5. Process, utilities, materials of construction

5.1 Required throughput (product basis)..... kg/h

5.2 Operation prior to this stage.....

.....

5.3 Operation subsequent to this stage.....

.....

5.4 Is the process: developed ready for production developed for pilot plant

5.5 Utilities available:

5.6 Saturated steam bar g Hot oil

5.7 Cooling water ° C Brine

5.8 Electrical characteristics Phases: Cycles: Voltage:

5.9 Exproof class

5.10 Materials of construction

Construction material of our standardized evaporators is stainless steel DIN 1.4404 (316L) for parts in contact with product. Does this meet your requirements? yes no

If not, which material is recommended

Which materials are suitable for seals/gaskets?

5.11 Further remarks

.....

6. Product trials

6.1 Product trials in Laboratory yes no

6.2 Are special precautions to be taken in the storing, handling or shipping of the product: no yes, which?

7. Test material

7.1 What product quantity can be furnished for trials:

2.000 kg 1.000 kg kg

7.2 The feed product will be furnished in its initial composition

The feed product will be furnished in its separate components (Supply in initial composition is favourable)

7.3 Composition (in % by weight).....

7.4 At room temperature the feed is: thin liquid viscous liquid?

7.5 Viscosity Pa.s at °C

7.6 solid pellets other consistency:

7.7 If the feed or the components are solid at room temperature, what is the melting temperature: °C

7.8 Must the product be returned after trials yes no
solvent to be disposed after the trial: yes no

8. Product samples

8.1 Desired quantity of product samples per sample

8.2 Product samples:

- must be taken under a nitrogen blanket
- should be discharged through a water bath
- can be discharged into atmospheric receivers
- must be in form of pellets

8.3 Analysis: Drying oven..... mbar°Ch

8.4 Further method: (please enclose specification)

8.5 Further remarks:
.....

8.6 Safty data sheet No.:.....

Please enclose further data, diagrams, etc. if available

Physical data

| | | High viscosity Components | Solvent Components | |
|--------------------------------|-------------------|---------------------------|--------------------|-------------|
| | | | Component 1 | Component 2 |
| Chemical formula/name | | | | |
| Molecular weight | kg/kmol | | | |
| Latent heat of evaporation | kJ/kg | | | |
| Specific heat (20 °C) | kJ/kg °C | | | |
| Boiling point at atm. pressure | °C | | | |
| Vapor pressure in mbar | at °C | | | |
| | at °C | | | |
| | at °C | | | |
| | at °C | | | |
| Melting point | °C | | | |
| Density | kg/m ³ | (°C) | (°C) | (°C) |
| Flashpoint | °C | | | |
| Lower ignition limit | Vol.-% | | | |
| Ignition temperature | °C | | | |
| resp. temperature class | | | | |
| MAK | ppm | | | |
| Is the product: | toxic | | | |
| | caustic | | | |
| | inflammable | | | |
| | explosive | | | |

Process data
High Viscosity-Technology

