

Questions for preparing an offer for viscosity measuring systems

Please answer as many questions as possible,
 to ensure that our offer will meet your requirements.

Regarding application:

1 What kind of product/ products (polymers, oils, ...) should be analyzed?

a) b) c)

1.1 If sample is a polymer solution (e.g. PET, polyamide): Which solvent is used?

a) b) c)

Polymer concentration

- none (pure substance)
- 0.5 %
- 1.0 %
- 8.4 %
- > 8.4 %
- others: %

1.2 If sample isn't polymer solution: Which is absolute viscosity or viscosity range of your sample?

Approx. Viscosity = mm²/s

1.3 Does sample contain particles or fillers, e.g. glass fibres in case of reinforced polymers?

- no
- yes: (description of non-solubles)

1.4 Are samples transparent or opaque / colour-intensive?

- transparent
- opaque:

2 Measuring temperature

- 20°C
- 25°C
- 30°C
- 37°C
- 40°C
- 100°C
- 135°C
- other temperature: °C

3 Flow time range you want to work, preferably?

- max. 100 s
- > 100 s to max. 200 s
- > 200 s

4 Please mention any standard you work according to (if there is any):

- DIN
- ISO.....
- ASTM
- other

5 How many samples should be measured per day (working shift)?

- 1 – 5
- 6 – 10
- 11 – 20
- 21 – 50
- more than 50

Regarding viscometry system:

6 Which instrument or instrument combination should be offered, preferably?

- Manual time measurement by stop watch
- ViscoClock *plus*
- AVS 370 system (PC controlled system)
- AVS 370 system for dilution series (for intrinsic viscosity only)
- AVS 470 (Stand alone system)
- AVSPro III

In case of AVS 370: Configuration with or without waste system?

- Without waste system: For discharge and rinse, viscometer is taken out of the thermostat bath
- With waste system: Viscometer keeps installed during discharging / rinsing

7 How many measuring positions are required, for measurement at the same time?

- 1 2 4 8

8 Which detection system for flow time measurement should be applied, preferably?

- Optical (by light barriers) Thermal (by TC sensors)

9 What type of viscometer is preferred?

- DIN-Ubbelohde (DIN, ISO)
- ASTM-Ubbelohde (ASTM, ISO)
- DIN Micro-Ubbelohde
- Cannon-Fenske routine (ISO, ASTM)
- Cannon-Fenske opaque (DIN, ISO, ASTM)
- Ubbelohde for dilution series
- Micro-Ostwald

10 If known: preferred capillary size (here: sizes for DIN Ubbelohde viscometers, of course other sizes are possible for other)

- 0 0c 0a I Ic Ia
- II IIc IIa III IIIc IIIa
- IV IVc IVa V unknown

11 Which thermostat should be used, preferably?

- CT 72/P (10 ... 60°C; 2 measuring positions)
- CT 72/2 (up to 150°C; 2 measuring positions)
- CT 72/4 (up to 150°C; 4 measuring positions)
- other

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