

# Consistometer

## Stainless steel construction



Standard Consistometer ZXCON-CON1

- Length 24 cm
- 48 graduations x 0.5 cm
- Overall length 35.5 cm x width 8.8 cm x height x 10.4 cm
- Stainless Steel Construction
- Engraved Graduations (0.5cm divisions)
- Portable and easily cleaned
- Accepts up to 100 ml of sample
- Spring loaded gate prevents premature flowing of sample
- Complies to R-81294D & ASTM F1080-93

Extended Consistometer ZXCON-CON3

- Length 30 cm
- 60 graduations x 0.5 cm
- Overall length 41.4 cm x width 8.8 cm x height x 10.4 cm
- Stainless Steel Construction
- Engraved Graduations (0.5cm divisions)
- Portable and easily cleaned
- Accepts up to 100 ml of sample
- Spring loaded gate prevents premature flowing of sample
- Complies to R-81294D & ASTM F1080-93



The Consistometer is a simple, dependable instrument which determines the consistency of various materials by measuring the distance which a sample flows under its own weight.

The unit is constructed of stainless steel and is equipped with two levelling screws and a level.

The gate is spring operated and held by a positive release mechanism, permitting instantaneous flow of sample. The consistometer trough is graduated in 0.5cm divisions to permit accurate measurement of flow.

#### Food Processing

- Tomato Sauces (paste, ketchup, puree, etc.)
- Preserves (jams, jellies, etc.)
- Fillings
- Soups
- Baby Foods
- Salad Dressings
- Cheese sauces
- Batters, cake mixes
- and others

#### Paint Manufacturing

- Epoxy Removers
- Polyurethane Paint
- Adhesives
- Coatings
- Mil Spec R-81294B

#### Cosmetic Formulation

- Lotions
- Shampoos
- Flow Base Creams

#### Chemical Production

- Selected Solvents
- Viscous Liquids
- Slurries

### Consistometer

#### The economical, accurate method of checking viscosity

The Consistometer is a low cost, durable, instrument for accurately checking laboratory or production samples against consistency, viscosity or flow rate standards.

It uses little bench space yet is probably the simplest, most accurate method of conducting a variety of flow associated tests. It is already widely used in the chemical, paint, cosmetic and food processing industries.

It provides a single parameter for a variety of flow tests which can be carried out over any period under as near identical conditions as possible.

The Consistometer is manufactured from stainless steel engraved with a series of precise graduations at 0.5 cm intervals.

To ensure accurate reproducibility the instrument is levelled using the adjustment screws and spirit level.

The instrument is sometimes known as a "Bostwick Consistometer".

#### Advantages

- Levelling screws and spirit level enable accurate set up
- Engraved graduations for accurate results
- Available in 2 versions - Standard or Extended
- Requires up to 100 ml of sample
- Low cost, ease of use

| Specifications                | Standard Consistometer | Extended Consistometer |
|-------------------------------|------------------------|------------------------|
| Overall length                | 355 mm                 | 415 mm                 |
| Overall width                 | 84 mm                  | 84 mm                  |
| Trough length                 | 240 mm                 | 300 mm                 |
| Inside / Outside trough width | 49.9 / 51.7 mm         | 49.9 / 51.7 mm         |
| Min. / Max. height            | 110 / 139 mm           | 110 / 139 mm           |
| Material                      | Stainless Steel        | Stainless Steel        |



### Method of use



A measured sample up to 100 ml is placed in the reservoir behind the gate.



The gate is released by pressing the lock release lever - the spring action ensures it opens instantaneously.



As the fluid flows down the instrument its progress can be accurately measured using the graduated scale. By comparing the flow rate to specified time periods the physical properties of the sample can be calculated.