



The viskomat NT is a versatile rotational viscosimeter for determining the workability of fine-grained building materials such as cement paste, mortar, fine concrete, plaster etc. with a maximum particle size of 2 mm. You can obtain information on:

- flow curves and rheological parameters
- temperature dependent workability properties
- stiffening behaviour as a function of time and stirring speed
- effects of concrete admixtures and mineral blending agents on workability

Not only is all this information useful for the materials themselves, but tests have shown that trends established, for example, in mortar are reflected in the behaviour of concrete at full scale.

Construction and operating principles

The viskomat NT is a true speed controlled viscosimeter driven by a high precision synchronous motor. Each rotation is resolved within 200.000 steps. It allows ramping from 0.001 rpm to 400 rpm in both directions to record

flow curves and yield points. The torque up to ± 250 Nmm is measured by a special transducer.

The standard measuring system consists of a stationary probe which is mounted concentrically in a rotating cylindrical sample container. As the sample flows around the paddle the shear resistance generates a torque which is continuously monitored electronically. The paddle is mounted on a measuring head, which runs up and down automatically to allow easy filling, emptying and cleaning of the sample container. The sample container is mounted on a speed drive shaft.

The temperature is measured by a sensor located within the measuring paddles.

All the electronic is housed in a separate case. One powerful microprocessor and two special signal processors do their work there. An online display shows torque, time and temperature during the measurement in a graphical way. The electronic has a serial and an ethernet interface to any PC running the VISKO software. With the ethernet interface you can integrate the Viskomat NT in any TCP/IP based (10 Mbit, RJ45) network. The Viskomat NT has a built-in WWW Server so any WEB browser may be used as user interface, the Viskomat NT can be remote controlled from any workplace in your local area network.

Features

- robust apparatus for industrial environments – quality control, research and development
- informative, easy to use test procedures
- automatic running of predefined test procedures which can be either standardised or tailored to your own requirements
- inhomogeneous materials measurable with particles up to 2 mm using special paddles to avoid separation

Rheometer Viskomat NT

Basic Data

voltage, frequency	V/Hz	110...230/50 – 60 Hz
size viskomat	mm (wxdxh)	300x670x50
size control unit	mm (wxdxh)	190x450x350
torque	Nmm	0–±250
speed	rpm	±0,001–±400
sample volume	ml	370
weight	ca. kg	20

Infos and Order..

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