

Adapters for HAAKE Viscotester models 6 and 7 plus for measuring range extension and sample temperature measurement (optional)

The rotational viscometers HAAKE Viscotester 6 & 7 plus are described in the standard ISO 2555. In comparison to the HAAKE Viscotester 6 the HAAKE Viscotester 7 is equipped with a temperature sensor and a serial interface. Both models are available in two versions: whereas the "L"-version is suitable for measurements on low and medium viscose samples (3 up to 6.000.000 mPas) the "R"-version can be used for medium and higher viscose materials (20 up to 40.000.000 mPas).

Using a low viscosity adapter (UL) the lower viscosity limit can be extended. Reproducible viscosity measurements can be performed down to 1.0 mPas using the L-version respectively 6.4m Pas for the R-version. It has to be taken into account that high rotational speeds are needed for measurements of very low viscosities and Taylor vortices cause hereby can have a negative influence on the experimental results.

For samples, which are available in small amounts only, a small sample adapter

can be used. Depending on the Viscotester version used different sets of cylindrical spindles are available which have to be ordered separately.

Low viscosity and small sample adapters are designed as a sample vessel made of stainless steel. Thanks to a temperature jacket the sample can be temperature controlled between -10 °C and 100 °C using a suitable circulator.

The standard ISO 2555 requires a sample volume of 600 ml. Using the adapters described less volume is sufficient: 16 up to 18 ml in case of the low viscosity adapter and 8 up to 13 ml for the small sample adapter.

The viscosity depends on the temperature. Therefore a correct viscosity measurement requires the exact temperature. For the HAAKE Viscotester 7 plus low viscosity and small sample adapters with integrated temperature sensor are available, which enables a temperature measurement in the sample and thus leading to more reliable test results.

Key-words

- HAAKE Viscotester 6 & 7 plus
- ISO 2555
- Low viscosity adapter
- Small sample adapter
- Sample temperature

Order information:

For HAAKE Viscotester 6 & 7 (plus):
222-1379 Low viscosity adapter (UL) incl. spindle
222-1378 Small volume adapter, set of spindles required:
222-1397 (L-version) or 222-1387 (R-version)

For HAAKE Viscotester 7 plus, with integrated temperature sensor
222-1846 Low viscosity adapter (UL) incl. spindle
222-1847 Small volume adapter, set of spindles required:
222-1397 (L-version) or 222-1387 (R-version)



Fig. 1: HAAKE Viscotester 7 plus with 600 ml beaker and temperature sensor, which belongs to the standard contents of delivery (left), mounted adapter with temperature vessel and liquid temperature control (middle), sample vessel with integrated temperature sensor for HAAKE Viscotester 7 plus (right)

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