



## **Rheology Solutions**

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We look forward to being of further service.*

*Regards from the Team at Rheology Solutions.*

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# Application package: Thermo Scientific HAAKE RheoStress 6000

Order number 396-0041

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## Application

This package has been created for the rheological characterization of paints and inks. The universal rheometer Thermo Scientific HAAKE RheoStress 6000 is designed to perform measurements in CR (controlled rate), CS (controlled stress) and CD (controlled deformation). The integrated normal force sensor allows the measurement of positive and negative normal forces. Thanks to the liquid temperature control unit using a separate circulator, a precise and constant temperature control of the sample can be achieved. A cone with a diameter of 20 mm suitable for measuring higher viscosities has been selected.

With this configuration measurements such as thixotropy and structure recovery tests can be carried out. The sensitive and precise normal force sensor can be used for reproducible gap setting and for keeping the gap constant during the measurement. The "tackiness" of a sample can be determined by measuring the negative normal force which is needed to lift a measuring geometry resting on the sample upwards.

For measurements on UV-curing paints a UV curing cell as optional accessory is recommended [1].



Thermo Scientific HAAKE RheoStress 6000

## Advantage at a glance

- Universal rheometer Thermo Scientific HAAKE RheoStress 6000 for standard application in quality control as well as research and development
- Normal force sensor for measurements of positive and negative normal forces
- Easy-to-use, multilingual HAAKE RheoWin software for beginners and experts
- Lower measuring plate for an optimal gap filling
- Measuring geometry made of titanium with low inertia

## Scope of delivery

396-0040	Air-bearing rheometer Thermo Scientific HAAKE RheoStress 6000 incl. normal force sensor as well as measuring and evaluation software HAAKE RheoWin
222-0609	Liquid temperature-controlled plate and cone unit (TEF/P), temperature range: -80 °C up to 350 °C (depending on the circulator used)
222-1300	Measuring plate (MP20) as lower part of the measuring geometry, diameter D = 20 mm
222-1253	Cone C20/0.5° Ti, diameter D = 20 mm, cone angle 0.5 °, made of titanium

### Necessary accessories:

- Air compressor or standard filter unit for available compressed air
- Circulator

### Literature

- [1] Thermo Scientific Product information P13 “UV curing cell for HAAKE Rheometers”, Cornelia Küchenmeister, Fritz Soergel

## Process Instruments

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