

Viscosity Standards



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Paragon Scientific's ISO 17025 / ISO 17034 dual certified Viscosity Standards are for the calibration and verification of glass capillary viscometers and other viscosity measuring equipment where operating temperature is controlled precisely.

We understand the importance of accurate calibration in your laboratory so we only source the highest quality raw materials for use in the manufacture of all our Viscosity Standards. Using only the best quality materials means that our standards are highly stable in all environments, you will not experience 'flocking' (associated with cool environments), discolouration or sedimentation.

Unlike other Reference Material Producers, we fully test our products at every given data point, so you can be assured that the certified value given is the most accurate available.

Our Viscosity Standards are certified in strict accordance with the associated methodology under our dual UKAS accreditations for ISO 17025 and ISO 17034.

CCS Viscosity Standards (Cold Cranking Simulator)

Paragon ISO 17025 / ISO 17034 dual certified CCS Viscosity Standards are for the calibration and verification of analytical equipment used in Cold Cranking Simulator (CCS) oil testing to ASTM D5293 and SAE Specification J300.

- Certified according to ISO 17025 / ISO 17034 under UKAS accreditation
- Full traceability to national standards
- Ensures full compliance to ASTM & IP test method protocol
- 24 month shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant SDS which are available in 24 languages

Paragon Scientific can offer CCS Viscosity Standards individually in 500 mL volume or as set CCS Viscosity kits. These are set kit sizes of 8, 14 or 18 x 500 mL volume standards. Please see our full listing on our website.

Cone & Plate Viscosity Standards (CAP)

Paragon ISO 17025 / ISO 17034 dual certified Cone and Plate Viscosity Standards are specifically formulated for the paint and coatings industry and represent the most comprehensive range of standards available for this application.

- Certified according to ISO 17025 / ISO 17034 under UKAS accreditation
- Density g/mL in strict accordance with ASTM D1480
- Kinematic, mm²/s (cSt), Dynamic Viscosity mPa·s (cP) & Density, g/mL, given at all temperatures
- Ensures full compliance to ASTM & IP test method protocol
- Full traceability to national standards
- 24 month shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant SDS which are available in 24 languages

General Purpose Viscosity Standards

Paragon ISO 17025 / ISO 17034 dual certified General Purpose Viscosity Standards are tested in strict accordance with ASTM D2162, ("Standard Practice for basic calibration of master viscometers and viscosity standard oils").

They are fully traceable to national standards and are test equipment compatible.

- Certified according to ISO 17025 / ISO 17034 under UKAS accreditation
- Tested in accordance with ASTM D2162 ("Standard Practice for basic calibration of master viscometers and viscosity standard oils")
- Density g/mL in strict accordance with ASTM D1480
- Kinematic, mm²/s (cSt), Dynamic Viscosity mPa·s (cP) & Density, g/mL, given at all temperatures
- Fully traceable to national standards
- Ensures full compliance to ASTM & IP test method protocol
- 24 month shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant SDS which are available in 24 languages

Flow Cup Viscosity Standards

Paragon ISO 17025 / ISO 17034 dual certified flow cup standards are especially designed for use in DIN, Ford, ISO, Shell and Zahn flow cups. Certified at 20°C and 25°C, each value is tested to ASTM D2162 for viscosity measurement and ASTM D1480 for density measurement.

- Certified according to ISO 17025 / ISO 17034 under UKAS accreditation
- Tested in strict accordance with ASTM D2162 ("Standard Practice for basic calibration of master viscometers and viscosity standard oils")
- Density g/mL in strict accordance with ASTM D1480
- Kinematic, mm²/s (cSt), Dynamic Viscosity mPa·s (cP) & Density, g/mL, given at all temperatures
- Ensures full compliance to ASTM & IP test method protocol
- Full traceability to national standards
- 24 month shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant SDS which are available in 24 languages



High Temperature Viscosity Standards

Paragon ISO 17025 / ISO 17034 dual certified High Temperature Viscosity Standards are manufactured for temperatures between 20 °C and 150 °C and provide data for kinematic viscosity, dynamic viscosity and density.

- Certified according to ISO 17025 / ISO 17034 under UKAS accreditation
- Kinematic, mm²/s (cSt), Dynamic Viscosity mPa·s (cP) and density (g/mL) given at temperatures between 20 °C and 150 °C
- Fully traceable to National Standards
- Ensures full compliance to ASTM & IP test method protocol
- Tamper evident security packaging
- 24 month shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate despatch
- Supplied with the latest EU fully compliant SDS which are available in 24 languages

High Temperature Viscosity Standards, 100 to 150 °C

We also manufacture a range of High Temperature Viscosity Standards specifically for temperatures between 100 and 150 °C. These are dual certified to ISO 17034 and ISO 17025 and are specially formulated to provide values for kinematic viscosity, dynamic viscosity and density.

- Certified according to ISO 17025 / ISO 17034 under UKAS accreditation
- Kinematic, mm²/s (cSt), Dynamic Viscosity mPa·s (cP) and density (g/mL) between 100 °C and 150 °C
- 500 mL Standard Pack Size
- Fully traceable to National Standards
- Ensures full compliance to ASTM & IP test method protocol
- Tamper evident security packaging
- 24 month shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate despatch
- Supplied with the latest EU fully compliant SDS which are available in 24 languages

Low Temperature Viscosity Standards

These standards are widely used for the verification of viscometers at sub-zero temperatures on a routine basis. The use of Paragon ISO 17025 / ISO 17034 dual certified, low temperature standards can help provide confidence in overall system functionality including bath uniformity, bath stability, temperature measurement, timer accuracy and viscometer calibration.

- Certified according to ISO 17025 / ISO 17034 under UKAS accreditation
- Fully traceable to national standards
- Ensures full compliance to ASTM & IP test method protocol
- 24 month shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant SDS which are available in 24 languages

Medical Viscosity Standards

Tested in strict accordance with ASTM D2162, the primary method for viscosity standards calibration. These medical grade viscosity standards are fully traceable to national standards and are also test equipment compatible.

Typically used, but not limited to, the calibration and verification of viscosity measuring equipment.

- Certified according to ISO 17025 under our UKAS accreditation
- Pack size available in 100mL and 500mL
- Full traceability to national standards
- 12 month shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant SDS which are available in 24 languages

Mineral Oil Rotational Viscosity Standards

Paragon Scientific's Mineral Oil Rotational Viscosity Standards are the first choice option where end users are unable to have silicone in their process. Dual certified to both ISO 17025 and ISO 17034 under our UKAS accreditation, they provide both calibration and verification options for rotational viscometer test equipment. The dynamic viscosity at 20 & 25 °C is derived from the kinematic viscosity measured in strict accordance with ASTM D2162 and the density measured in strict accordance with ASTM D1480. Dynamic viscosity at intermediate temperatures is derived from the kinematic viscosity calculated in strict accordance with ASTM D341 and interpolated density measurements by calculation.

Key benefits include:

- Certified according to ISO 17025 under our UKAS accreditation
- Pack size available in 100mL and 500mL
- Full traceability to national standards
- 12 month shelf life
- Manufactured in the United Kingdom
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant SDS which are available in 24 languages



Pure Water Viscosity Standards

Paragon ISO 17025 / ISO 17034 dual certified Pure Water Viscosity Standards are certified in strict accordance with ASTM D445 for 5 °C, as well as ASTM D2162, the primary method for viscosity standards manufacture, for temperatures at 20 °C, 25 °C and 37 °C. Dual certified to the International Standards BS EN ISO / IEC 17025 and ISO 17034 under our UKAS accreditation. We test at Primary level using master viscometers in accordance with ASTM D2162 to ensure the lowest uncertainty of measurement thus providing standards that are certified with primary level accuracy.

Key benefits include:

- Certified according to ISO 17025 / ISO 17034 under our UKAS accreditation
- Certified in strict accordance with ASTM D445 for 5 °C
- Certified in strict accordance with ASTM D2162 for 20 °C, 25 °C and 37 °C.
- Density g/mL in accordance with ASTM D1480 for all temperatures
- Standard Pack Size 100 mL
- Fully traceable to National Standards
- Ensures full compliance to ASTM & IP test method protocol
- 6 month shelf life
- Manufactured in the United Kingdom

Small Sample Viscosity Standards - ASTM D7279

These standards are certified in strict accordance with ASTM D2162 at 40 °C and 100 °C under our ISO 17025 and ISO 17034 accreditation and have been manufactured specifically for the users of ASTM D7279, Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids by Automated Houillon Viscometer and other similar type test equipment.

- Fully traceable to international standards
- Ensures full compliance to ASTM & IP test method protocol
- Certified in strict accordance with ASTM D2162
- 60mL lower volume cost effective solution
- 24 month shelf life
- Available from stock for immediate despatch
- Manufactured in the United Kingdom



Silicone Rotational Viscosity Standards

Paragon ISO 17025/ISO 17034 dual certified Silicone Rotational Viscosity Standards are specifically formulated for use with rotational viscometers. Supplied in 600mL 'ready to use' packs specially designed to eliminate the requirement to transfer the sample to a test beaker.

Safer working, less mess, less waste, higher throughput.

- Certified according to ISO 17025 / ISO 17034 under UKAS accreditation
- 600mL of product supplied in a ready to use 'test in pack' container
- Tested and certified at 20 °C and 25 °C
- 24 month shelf life
- Ensures full compliance to international test method protocol
- Full traceability to national standards
- Custom blending available
- In stock and available for immediate dispatch
- Supplied with the latest EU fully compliant SDS which are available in 24 languages



Special Blend Viscosity Standards

If you have a requirement for different temperatures or viscosity values we may be able to offer you a solution.

We also offer highly competitive rates for viscosity standard bulk blending where customers wish to have a supply of carefully prepared and guaranteed homogeneous Newtonian materials for use on a daily or high frequency basis.

There are many packaging options available, so please contact us with your requirements.