



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ANTON PAAR USA, INC.  
 10215 Timber Ridge Drive  
 Ashland, VA 23005  
 Darren Wilson Phone: 804 550 1051

CALIBRATION

Valid To: June 30, 2026

Certificate Number: 2697.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with A2LA's Calibration Program Requirements), accreditation is granted to this laboratory and to the noted satellite locations to perform the following calibrations<sup>1</sup>:

I. Fluid Quantities

Parameter/Equipment	Range	CMC <sup>2,4</sup> (±)	Comments
Viscosity <sup>3</sup> –  Kinematic (SVM) (20 to 40) °C	< 10 mm <sup>2</sup> /s (10 to 100) mm <sup>2</sup> /s (> 100 to 1000) mm <sup>2</sup> /s (> 1000 to 10 000) mm <sup>2</sup> /s (> 10 000 to 100 000) mm <sup>2</sup> /s	0.25 % 0.33 % 0.42 % 0.55 % 0.63 %	USQ04AW04 or USQ04AW05 – internal calibration procedure  Note: calibration typically performed at 40 °C
Dynamic (MCR) 20 °C	(1350 to 1650) mPa·s	13 mPa·s	USQ04AW03 – note: calibration typically performed at 20 °C.
25 °C	(990 to 1210) mPa·s	12 mPa·s	
Dynamic (ViscoQC) (15 to 30) °C	(450 to 600) mPa·s (4400 to 6200) mPa·s (27 000 to 36 000) mPa·s	4.2 mPa·s 42 mPa·s 220 mPa·s	USQ04AW06 internal calibration procedure

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Density with U-Tube Technology <sup>3</sup> –  (15 to 40) °C	(650 to 1800) kg/m <sup>3</sup>	0.05 kg/m <sup>3</sup>	USQ04AW01 or USQ04AW02 – internal calibration procedure  Note: calibration typically performed at 20 °C

**Satellite Laboratory**

ANTON PAAR USA, INC.  
 South Region  
 3955 World Houston Pkwy, Ste I-70  
 Houston, TX 77032  
 Darren Wilson Phone: 804 550 1051

I. Fluid Quantities

Parameter/Equipment	Range	CMC <sup>2,4</sup> (±)	Comments
Viscosity <sup>3</sup> –  Kinematic (SVM) (20 to 40) °C   Dynamic (MCR) 20 °C  25 °C   Dynamic (ViscoQC) (15 to 30) °C	< 10 mm <sup>2</sup> /s (10 to 100) mm <sup>2</sup> /s (> 100 to 1000) mm <sup>2</sup> /s (> 1000 to 10 000) mm <sup>2</sup> /s (> 10 000 to 100 000) mm <sup>2</sup> /s   (1350 to 1650) mPa·s  (990 to 1210) mPa·s   (450 to 600) mPa·s (4400 to 6200) mPa·s (27 000 to 36 000) mPa·s	0.25 % 0.33 % 0.42 % 0.55 % 0.63 %   13 mPa·s  12 mPa·s   4.2 mPa·s 42 mPa·s 220 mPa·s	USQ04AW04 or USQ04AW05 – internal calibration procedure  Note: calibration typically performed at 40 °C  USQ04AW03 – note: calibration typically performed at 20 °C.  USQ04AW06 internal calibration procedure
Density with U-Tube Technology <sup>3</sup> –  (15 to 40) °C	(650 to 1800) kg/m <sup>3</sup>	0.05 kg/m <sup>3</sup>	USQ04AW01 or USQ04AW02 – internal calibration procedure  Note: calibration typically performed at 20 °C



**Satellite Laboratory**

ANTON PAAR USA, INC.  
 Central Region  
 50 Lakeview Pkwy  
 Suites 116 – 117  
 Vernon Hills, IL 60006  
 Darren Wilson Phone: 804 550 1051

I. Fluid Quantities

Parameter/Equipment	Range	CMC <sup>2, 4</sup> (±)	Comments
Viscosity <sup>3</sup> –  Kinematic (SVM) (20 to 40) °C	< 10 mm <sup>2</sup> /s (10 to 100) mm <sup>2</sup> /s (> 100 to 1000) mm <sup>2</sup> /s (> 1000 to 10 000) mm <sup>2</sup> /s (> 10 000 to 100 000) mm <sup>2</sup> /s	0.25 % 0.33 % 0.42 % 0.55 % 0.63 %	USQ04AW04 or USQ04AW05 – internal calibration procedure  Note: calibration typically performed at 40 °C
Dynamic (MCR) 20 °C	(1350 to 1650) mPa·s	13 mPa·s	USQ04AW03 – note: calibration typically performed at 20 °C.
25 °C	(990 to 1210) mPa·s	12 mPa·s	
Dynamic (ViscoQC) (15 to 30) °C	(450 to 600) mPa·s (4400 to 6200) mPa·s (27 000 to 36 000) mPa·s	4.2 mPa·s 42 mPa·s 220 mPa·s	USQ04AW06 internal calibration procedure
Density with U-Tube Technology <sup>3</sup> –  (15 to 40) °C	(650 to 1800) kg/m <sup>3</sup>	0.05 kg/m <sup>3</sup>	USQ04AW01 or USQ04AW02 – internal calibration procedure  Note: calibration typically performed at 20 °C



**Satellite Laboratory**

ANTON PAAR USA, INC.  
 West Region  
 2824 Columbia St  
 Torrance, CA 90503  
 Darren Wilson Phone: 804 550 1051

I. Fluid Quantities

Parameter/Equipment	Range	CMC <sup>2,4</sup> (±)	Comments
Viscosity <sup>3</sup> –  Kinematic (SVM) (20 to 40) °C	< 10 mm <sup>2</sup> /s (10 to 100) mm <sup>2</sup> /s (> 100 to 1000) mm <sup>2</sup> /s (> 1000 to 10 000) mm <sup>2</sup> /s (> 10 000 to 100 000) mm <sup>2</sup> /s	0.25 % 0.33 % 0.42 % 0.55 % 0.63 %	USQ04AW04 or USQ04AW05 – internal calibration procedure  Note: calibration typically performed at 40 °C
Dynamic (MCR) 20 °C	(1350 to 1650) mPa·s	13 mPa·s	USQ04AW03 – note: calibration typically performed at 20 °C.
25 °C	(990 to 1210) mPa·s	12 mPa·s	
Dynamic (ViscoQC) (15 to 30) °C	(450 to 600) mPa·s (4400 to 6200) mPa·s (27 000 to 36 000) mPa·s	4.2 mPa·s 42 mPa·s 220 mPa·s	USQ04AW06 internal calibration procedure
Density with U-Tube Technology <sup>3</sup> –  (15 to 40) °C	(650 to 1800) kg/m <sup>3</sup>	0.05 kg/m <sup>3</sup>	USQ04AW01 or USQ04AW02 – internal calibration procedure  Note: calibration typically performed at 20 °C



**Satellite Laboratory**

ANTON PAAR Canada  
 2920 Rue de Miniac  
 Montreal, Quebec, H4S 1N5  
 Darren Wilson Phone: 804 550 1051

I. Fluid Quantities

Parameter/Equipment	Range	CMC <sup>2,4</sup> (±)	Comments
Viscosity <sup>3</sup> –  Kinematic (SVM) (20 to 40) °C	< 10 mm <sup>2</sup> /s (10 to 100) mm <sup>2</sup> /s (> 100 to 1000) mm <sup>2</sup> /s (> 1000 to 10 000) mm <sup>2</sup> /s (> 10 000 to 100 000) mm <sup>2</sup> /s	0.25 % 0.33 % 0.42 % 0.55 % 0.63 %	USQ04AW04 or USQ04AW05 – internal calibration procedure  Note: calibration typically performed at 40 °C
Dynamic (MCR) 20 °C	(1350 to 1650) mPa·s	13 mPa·s	USQ04AW03 – note: calibration typically performed at 20 °C.
25 °C	(990 to 1210) mPa·s	12 mPa·s	
Dynamic (ViscoQC) (15 to 30) °C	(450 to 600) mPa·s (4400 to 6200) mPa·s (27 000 to 36 000) mPa·s	4.2 mPa·s 42 mPa·s 220 mPa·s	USQ04AW06 internal calibration procedure
Density with U-Tube Technology <sup>3</sup> –  (15 to 40) °C	(650 to 1800) kg/m <sup>3</sup>	0.05 kg/m <sup>3</sup>	USQ04AW01 or USQ04AW02 – internal calibration procedure  Note: calibration typically performed at 20 °C

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<sup>1</sup> This laboratory offers commercial calibration service and field calibration service.

<sup>2</sup> Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of  $k = 2$ . The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

<sup>3</sup> Field calibration service is available for this calibration. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g., resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

<sup>4</sup> In the statement of CMC, percentages are percentage of reading, unless otherwise indicated.



# Accredited Laboratory

A2LA has accredited

**ANTON PAAR USA, INC.**

*Ashland, VA*

for technical competence in the field of

**Calibration**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

Presented this 26<sup>th</sup> day of September 2024.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2697.01  
Valid to June 30, 2026



*For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.*