



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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

CALIBRATION

Valid To: June 30, 2024

Certificate Number: 2697.01

In recognition of the successful completion of the A2LA evaluation process, 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
Rotational 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	

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  
Dalton Echard 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
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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  
Dalton Echard 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
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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  
Dalton Echard 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
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25 °C	(990 to 1210) mPa·s	12 mPa·s	
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  
Central Region  
4920 Place Oliva  
Montreal, QC H4R 2Z8  
Dalton Echard 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
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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 12<sup>th</sup> day of April 2022.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2697.01  
Valid to June 30, 2024

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