

National Institute  
of Standards and Technology



National Voluntary  
Laboratory Accreditation Program

ISO/IEC 17025:1999  
ISO 9002:1994



## Scope of Accreditation

Revised 9/13/2004

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### CALIBRATION LABORATORIES

NVLAP LAB CODE 200359-0

#### PHILIP MORRIS STANDARDS AND CALIBRATION LABORATORY

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Richmond, VA 23234  
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NVLAP Code: 20/A01

ANSI/NCSL Z540-1-1994; Part 1

Compliant

### DIMENSIONAL

NVLAP Code: 20/D05

Length and Diameter

Range in mm	Best Uncertainty ( $\pm$ ) in mm <sup>note 1</sup>	Remarks
Diameter Standards		
<9.7	0.0007	Non Contact Scanning Laser Beam Method
Circumference Standards		
<30.4	0.0022	Non Contact Scanning Laser Beam Method

June 30, 2005

A handwritten signature in black ink, appearing to read "W. R. Mihl".

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#### MECHANICAL

**NVLAP Code:** 20/M05

Flow Rate

Range	Best Uncertainty ( $\pm$ ) in % of value <sup>note 1</sup>	Remarks
5 mL/min to 4.5 L/min	0.6	Paper Permeability Standards

Pressure Drop

20mm to 1000mm H <sub>2</sub> O	0.3	Resistance to Draw Complies with ISO 6565
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Ventilation

10% to 95%	0.5	Cigarettes Determination of Ventilation Complies with ISO 9512
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**NVLAP Code:** 20/M08

Mass

Range	Best Uncertainty ( $\pm$ ) in mg <sup>note 1</sup>	Remarks <sup>note 2</sup>
1 kg	0.046	Echelon III
500 g	0.290	Echelon III
200 g	0.230	Echelon III
100 g	0.023	Echelon III
50 g	0.014	Echelon III
20 g	0.016	Echelon III
10 g	0.008	Echelon III
5 g	0.011	Echelon III
2 g	0.008	Echelon III
1 g	0.008	Echelon III
500 mg	0.007	Echelon III
200 mg	0.007	Echelon III
100 mg	0.007	Echelon III
50 mg	0.007	Echelon III
20 mg	0.007	Echelon III

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10 mg

0.007

Echelon III

### THERMODYNAMICS

**NVLAP Code:** 20/T07  
Resistance Thermometry

**Range in °C**

**Best Uncertainty ( $\pm$ ) in °C<sup>note 1</sup>**

**Remarks**

0 to 200

0.12

Comparison Method

1. Represents an expanded uncertainty using a coverage factor, k=2, at an approximate level of confidence of 95%.
2. Describes Echelon III per NIST Handbook 143 and NIST Handbook 150-2G.

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A handwritten signature in black ink, appearing to read "Wm R. Miller".

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