

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

<i>Range in mm</i>	<i>Best Uncertainty (<math>\pm</math>) in mm<sup>note 1</sup></i>	<i>Remarks</i>
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 'William R. Mohr'.

Effective through

For the National Institute of Standards and Technology

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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

Ventilation

10% to 95%

0.5

Cigarettes  
Determination of Ventilation  
Complies with ISO 9512

June 30, 2005

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*NVLAP Code:* 20/M08

Mass

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in mg<sup>note 1</sup></i>	<i>Remarks<sup>note 2</sup></i>
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 (±) 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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