



National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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CALIBRATION LABORATORIES

NVLAP LAB CODE 105003-0

Scope Revised: 2011-11-17

NVLAP Code: 20/A01

ANSI/NCSL Z540-1-1994; Part 1

Compliant

MECHANICAL

NVLAP Code: 20/M08

Mass - Metric

Range	Best Uncertainty ($\pm$)^{note 1}	Remarks
30 kg	16 mg	Echelon I
20 kg	11 mg	Echelon I
10 kg	0.44 mg	Echelon I
5 kg	0.22 mg	Echelon I
3 kg	0.13 mg	Echelon I
2 kg	0.085 mg	Echelon I
1 kg	0.07 mg	Echelon I
500 g	0.02 mg	Echelon I
300 g	0.02 mg	Echelon I
200 g	0.01 mg	Echelon I
100 g	0.01 mg	Echelon I
50 g	0.005 mg	Echelon I
30 g	0.005 mg	Echelon I
20 g	0.0025 mg	Echelon I
10 g	0.0025 mg	Echelon I
5 g	0.0025 mg	Echelon I

2011-01-01 through 2011-12-31

Effective dates

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3 g	0.0025 mg	Echelon I
2 g	0.0025 mg	Echelon I
1 g	0.0025 mg	Echelon I
500 mg	0.0008 mg	Echelon I
300 mg	0.00055 mg	Echelon I
200 mg	0.00055 mg	Echelon I
100 mg	0.00035 mg	Echelon I
50 mg	0.00035 mg	Echelon I
30 mg	0.00035 mg	Echelon I
20 mg	0.00035 mg	Echelon I
10 mg	0.00035 mg	Echelon I
5 mg	0.00035 mg	Echelon I
3 mg	0.00035 mg	Echelon I
2 mg	0.00035 mg	Echelon I
1 mg	0.00035 mg	Echelon I
500 kg	1100 mg	Echelon II
250 kg	870 mg	Echelon II
50 kg	80 mg	Echelon II
30 kg	34 mg	Echelon II
20 kg	25 mg	Echelon II
10 kg	12 mg	Echelon II
5 kg	6 mg	Echelon II
3 kg	6 mg	Echelon II
2 kg	0.7 mg	Echelon II
1 kg	0.7 mg	Echelon II
500 g	0.7 mg	Echelon II
300 g	0.7 mg	Echelon II
200 g	0.7 mg	Echelon II
100 g	0.03 mg	Echelon II
50 g	0.016 mg	Echelon II
30 g	0.016 mg	Echelon II

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20 g	0.015 mg	Echelon II
10 g	0.015 mg	Echelon II
5 g	0.015 mg	Echelon II
3 g	0.015 mg	Echelon II
2 g	0.015 mg	Echelon II
1 g	0.015 mg	Echelon II
500 mg	0.003 mg	Echelon II
300 mg	0.003 mg	Echelon II
200 mg	0.003 mg	Echelon II
100 mg	0.003 mg	Echelon II
50 mg	0.003 mg	Echelon II
30 mg	0.003 mg	Echelon II
20 mg	0.003 mg	Echelon II
10 mg	0.003 mg	Echelon II
5 mg	0.003 mg	Echelon II
3 mg	0.003 mg	Echelon II
2 mg	0.003 mg	Echelon II
1 mg	0.003 mg	Echelon II

Mass-Avoirdupois

2500 lb	3800 mg	Echelon II
2000 lb	3400 mg	Echelon II
1500 lb	3400 mg	Echelon II
1000 lb	1200 mg	Echelon II
500 lb	770 mg	Echelon II
250 lb	620 mg	Echelon II
100 lb	85 mg	Echelon II
50 lb	15 mg	Echelon II
30 lb	15 mg	Echelon II
25 lb	15 mg	Echelon II
20 lb	15 mg	Echelon II

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10 lb	6.1 mg	Echelon II
5 lb	0.8 mg	Echelon II
3 lb	0.7 mg	Echelon II
2 lb	0.7 mg	Echelon II
1 lb	0.7 mg	Echelon II
0.5 lb	0.7 mg	Echelon II
0.3 lb	0.7 mg	Echelon II
0.2 lb	0.03 mg	Echelon II
0.1 lb	0.02 mg	Echelon II
0.05 lb	0.02 mg	Echelon II
0.03 lb	0.015 mg	Echelon II
0.02 lb	0.015 mg	Echelon II
0.01 lb	0.015 mg	Echelon II
0.005 lb	0.003 mg	Echelon II
0.003 lb	0.003 mg	Echelon II
0.002 lb	0.003 mg	Echelon II
0.001 lb	0.003 mg	Echelon II
4 oz	0.012 mg	Echelon II
2 oz	0.007 mg	Echelon II
1 oz	0.007 mg	Echelon II
1/2 oz	0.007 mg	Echelon II
1/4 oz	0.007 mg	Echelon II
1/8 oz	0.007 mg	Echelon II
1/16 oz	0.007 mg	Echelon II
1/32 oz	0.007 mg	Echelon II

Mass-Metric

500 kg	3100 mg	Echelon III
250 kg	1600 mg	Echelon III
50 kg	220 mg	Echelon III
30 kg	140 mg	Echelon III
25 kg	140 mg	Echelon III

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20 kg	100 mg	Echelon III
10 kg	50 mg	Echelon III
5 kg	25 mg	Echelon III
3 kg	15 mg	Echelon III
2 kg	10 mg	Echelon III
1 kg	6 mg	Echelon III
500 g	4.6 mg	Echelon III
300 g	4.2 mg	Echelon III
200 g	1 mg	Echelon III
100 g	0.45 mg	Echelon III
50 g	0.25 mg	Echelon III
30 g	0.25 mg	Echelon III
20 g	0.25 mg	Echelon III
10 g	0.12 mg	Echelon III
5 g	0.1 mg	Echelon III
3 g	0.07 mg	Echelon III
2 g	0.07 mg	Echelon III
1 g	0.07 mg	Echelon III
500 mg	0.07 mg	Echelon III
300 mg	0.07 mg	Echelon III
200 mg	0.07 mg	Echelon III
100 mg	0.07 mg	Echelon III
50 mg	0.07 mg	Echelon III
30 mg	0.07 mg	Echelon III
20 mg	0.07 mg	Echelon III
10 mg	0.07 mg	Echelon III
5 mg	0.07 mg	Echelon III
3 mg	0.07 mg	Echelon III
2 mg	0.07 mg	Echelon III
1 mg	0.07 mg	Echelon III

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Mass-Avoirdupois

2500 lb	5000 mg	Echelon III
2000 lb	3000 mg	Echelon III
1500 lb	2300 mg	Echelon III
1000 lb	1600 mg	Echelon III
500 lb	1100 mg	Echelon III
250 lb	740 mg	Echelon III
100 lb	190 mg	Echelon III
50 lb	110 mg	Echelon III
30 lb	75 mg	Echelon III
25 lb	75 mg	Echelon III
20 lb	75 mg	Echelon III
10 lb	15 mg	Echelon III
5 lb	10 mg	Echelon III
3 lb	6 mg	Echelon III
2 lb	6 mg	Echelon III
1 lb	6 mg	Echelon III
0.5 lb	6 mg	Echelon III
0.3 lb	0.07 mg	Echelon III
0.2 lb	0.07 mg	Echelon III
0.1 lb	0.07 mg	Echelon III
0.05 lb	0.07 mg	Echelon III
0.03 lb	0.07 mg	Echelon III
0.02 lb	0.07 mg	Echelon III
0.01 lb	0.07 mg	Echelon III
0.005 lb	0.07 mg	Echelon III
0.003 lb	0.07 mg	Echelon III
0.002 lb	0.07 mg	Echelon III
0.001 lb	0.07 mg	Echelon III
8 oz	6 mg	Echelon III
4 oz	0.07 mg	Echelon III
2 oz	0.07 mg	Echelon III

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1 oz	0.07 mg	Echelon III
1/2 oz	0.07 mg	Echelon III
1/4 oz	0.07 mg	Echelon III
1/8 oz	0.07 mg	Echelon III
1/16 oz	0.07 mg	Echelon III
1/32 oz	0.07 mg	Echelon III
 <i>NVLAP Code: 20/M12</i> Volume		
100 gal	22 ml	Gravimetric Method
50 gal	12 ml	Gravimetric Method
30 gal	8.0 ml	Gravimetric Method
25 gal	7.0 ml	Gravimetric Method
20 gal	6.0 ml	Gravimetric Method
10 gal	3.0 ml	Gravimetric Method
5 gal	2.0 ml	Gravimetric Method
1 gal	0.30 ml	Gravimetric Method
1/2 gal	0.20 ml	Gravimetric Method
1/4 gal	0.10 ml	Gravimetric Method
1 quart	0.20 ml	Gravimetric Method
1/2 quart	0.10 ml	Gravimetric Method
1/4 quart	0.10 ml	Gravimetric Method
20 000 ml	2.0 ml	Gravimetric Method
2000 ml	0.20 ml	Gravimetric Method
1000 ml	0.10 ml	Gravimetric Method
100 ml	0.010 ml	Gravimetric Method
10 ml	0.0050 ml	Gravimetric Method
1500 gal	40 in ³	Volume Transfer Method
1200 gal	32 in ³	Volume Transfer Method
1000 gal	28 in ³	Volume Transfer Method

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500 gal	14 in ³	Volume Transfer Method
200 gal	5.6 in ³	Volume Transfer Method
100 gal	3.0 in ³	Volume Transfer Method
50 gal	4.4 in ³	Volume Transfer Method
25 gal	2.2 in ³	Volume Transfer Method
20 gal	2.0 in ³	Volume Transfer Method
5 gal	0.62 in ³	Volume Transfer Method
100 gal	9.0 in ³	Volume Transfer, LPG
25 gal	2.4 in ³	Volume Transfer, LPG

1. Represents an expanded uncertainty using a coverage factor, $k = 2$, at an approximate level of confidence of 95 %.

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David F. Alderman

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