

# Traceable Certificate

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201 Wolf Drive • P.O. Box 87 • Thorofare, NJ 08086-0087 • Phone: 856-686-1600 • Fax: 856-686-1601 • www.troemner.com • e-mail: troemner@troemner.com

Page 1 of 2

**Weight Density**

Certificate Number : 974400

Date of Calibration : 01-Feb-2018

## SECTION 1: NAME AND ADDRESS OF CUSTOMER

End User

Troemner LLC  
201 Wolf Drive  
Thorofare, NJ 08086

## SECTION 2: APPROVED SIGNATORY



Joseph Moran

## SECTION 3: PERSON PERFORMING WORK

Annemarie Love

## SECTION 4: CERTIFICATE INFORMATION

Description of Masses: Stainless Steel Sphere

Order Number : 123456

Date of Calibration : 01-Feb-2018

Construction : One Piece

Date of Issue : 02-Feb-2018

Material : Stainless Steel

Weight Range : 200g – 1kg

## SECTION 5: ENVIRONMENTAL CONDITIONS DURING TEST

Temperature: 21.5<sup>m</sup> C

Pressure: 759.10 mmHg

Humidity: 49%

## SECTION 6: PERTINENT INFORMATION

Reference standards and balances used to perform the calibration are listed in Section 8.

The weights calibrated for this report have been calibrated in accordance with Troemner's calibration procedure.

This calibration also meets specifications as outlined in, ISO/IEC 17025, ANSI/NCSL Z540-1-1994, and applicable documents.

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**SECTION 7: DENSITY CALIBRATION DATA**

Nominal Value	Serial Number	Density (g/cm <sup>3</sup> )	Density Unc (g/cm <sup>3</sup> )
20g	1	8.0459	0.0055
30g	2	8.0458	0.0055
50g	3	8.0454	0.0055
100g	4	8.0450	0.0055
200g	5	8.0462	0.0055

**SECTION 8: DENSITY CALIBRATION PROCEDURE DATA**

Nominal Value	Standard Set No.	Balance Used	Procedure Used
200g	Sphere 16	AT 201	METR-MAP

**SECTION 9: GENERAL INFORMATION**

This density calibration was performed in Troemner's Density Laboratory at 201 Wolf Drive, Thorofare, NJ 08086 unless otherwise noted on page one. The Weight listed on this calibration report is traceable to the SI units through determination of water density using silicon sphere calibrated by the National Institute of Standards and Technology test no. 822/266135-02.

**SECTION 10: DEFINITIONS AND TERMS**

**NOMINAL MASS** - The mass value as marked on the weight.

**UNCERTAINTY** - The error in assignment of the density due to the measurement process. Uncertainty is calculated per NIST Technical Note 1297 using a coverage factor of  $k = 2$  ( $k = 2$  defines an interval having a level of confidence of approximately 95 percent).

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