

Page 1 of 4 Pages
Magnetic Susceptibility
Certificate Number 9000000-1
Date of Calibration 01-JAN-2003

SECTION 1: NAME AND ADDRESS OF CUSTOMER

End User

Henry Troemner LLC
201 Wolf Drive
Thorofare, NJ 08086

Client

Henry Troemner LLC
201 Wolf Drive
Thorofare, NJ 08086

SECTION 2: APPROVED SIGNATORY

Joseph Moran

SECTION 3: PERSON PERFORMING WORK

Katharine Ellison

SECTION 4: CERTIFICATE INFORMATION

Description of Masses: Troemner 1kg, 100g & 10g Weights

Order Number	: 123456	Date Received	: 01-JAN-2003
Construction	: One Piece	Date of Calibration	: 01-JAN-2003
Material	: Stainless Steel	Date of Issue	: 01-JAN-2003
		Weight Range	: 1kg, 100g & 10g

SECTION 5: ENVIRONMENTAL CONDITIONS DURING TEST

Temperature: 20.17°C Pressure: 760.63 mm Hg Relative Humidity: 42.70%

SECTION 6: PERTINENT INFORMATION

Reference standards and balances used to perform the calibration are listed in Section 9.

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 9001, ISO/IEC 17025, ANSI/NCSL Z540-1-1994, NCR Document 10CFR50 Appendix B, and applicable documents.

Calibration Certificate

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 2 of 4 Pages
Magnetic Susceptibility
Certificate Number 9000000-1
Date of Calibration 01-JAN-2003

NAME AND ADDRESS OF CUSTOMER

End User

Henry Troemner LLC
201 Wolf Drive
Thorofare, NJ 08086

Client

Henry Troemner LLC
201 Wolf Drive
Thorofare, NJ 08086

SECTION 7: SUSCEPTIBILITY CALIBRATION DATA

Nominal Value	Magnetic Susceptibility (χ)	Uncertainty (χ)
1kg	0.005	0.00035
100g	0.004	0.00057
10g	0.005	0.00070

Calibration Certificate

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 3 of 4 Pages
Magnetic Susceptibility
Certificate Number 9000000-1
Date of Calibration 01-JAN-2003

NAME AND ADDRESS OF CUSTOMER

End User

Henry Troemner LLC
201 Wolf Drive
Thorofare, NJ 08086

Client

Henry Troemner LLC
201 Wolf Drive
Thorofare, NJ 08086

SECTION 8: SUSCEPTIBILITY CALIBRATION PROCEDURE DATA

Nominal Value	Standard Set No.	Balance Used	Procedure Used
1kg	Titanium	Susceptometer	CAL-MAGSUP
100g	Titanium	Susceptometer	CAL-MAGSUP
10g	Titanium	Susceptometer	CAL-MAGSUP

Calibration Certificate

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 4 of 4 Pages
Magnetic Susceptibility
Certificate Number 9000000-1
Date of Calibration 01-JAN-2003

NAME AND ADDRESS OF CUSTOMER

End User

Henry Troemner LLC
201 Wolf Drive
Thorofare, NJ 08086

Client

Henry Troemner LLC
201 Wolf Drive
Thorofare, NJ 08086

SECTION 9: GENERAL INFORMATION

This susceptibility calibration was performed in Troemner's Mass Certification Laboratory at 201 Wolf Drive, Thorofare, NJ 08086 unless otherwise noted on page one. The Weights listed on this calibration report have been compared to reference standard that is directly traceable to Bureau International Des Poids Measures (BIPM) Report of Test 1996-10-30.

SECTION 10: DEFINITIONS AND TERMS

UNCERTAINTY - The error in assignment of susceptibility 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).

SUSCEPTOMETER - The instrument described in the "Determining the Magnetic Properties 1kg Mass Standard" by Richard S. Davis NIST Volume 100 number 3 dated May-June 1995. Balance used in the determination of susceptibility is a UMT-5.