CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Gerhart Scale Corporation
603 Washington Ave.
South Amboy, NJ 08879

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1345
Certificate Number

ANAB Approval

Certificate Valid: 11/15/2017-10/01/2018
Version No. 006 Issued: 11/15/2017

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 AND ANSI/NCSL Z540-1-1994 (R2002)

Gerhart Scale Corporation

603 Washington Ave.
South Amboy, NJ 08879
John J. Smith (Lab Manager), Carol Rendfrey (Quality Manager), Stuart Cattell (President)
732-525-1000

CALIBRATION

Valid to: **October 1, 2018** Certificate Number: **AC-1345**

Mass

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Laboratory & Test Weights	5 000 g	1.11 mg	ASTM Class 1 Weights
	3 000 g	0.58 mg	
	2 000 g	0.57 mg	
	1 000 g	0.07 mg	OIML Class E_1 Weights
	500 g	0.14 mg	
	300 g	0.034 mg	
	200 g	0.031 mg	Sartorius CCE6
	100 g	0.018 mg	
	50 g	0.014 mg	
	30 g	0.014 mg	Sartorius MC21S
	20 g	0.005 3 mg	
	10 g	0.005 2 mg	
	5 g	0.002 8 mg	Sartorius CC310
	3 g	0.001 8 mg	
	2 g	0.001 4 mg	
	1 g	0.001 1 mg	Sartorius CCE5004
	500 mg	0.000 9 mg	
	300 mg	0.001 2 mg	
	200 mg	0.000 77 mg	
	100 mg	0.000 89 mg	
	50 mg	0.000 86 mg	
	30 mg	0.001 1 mg	
	20 mg	0.000 76 mg	
	10 mg	0.000 81 mg	
	5 mg	0.000 75 mg	

Mass

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Laboratory & Test Weights	3 mg	0.000 52 mg	Sartorius CCE5004
	2 mg	0.000 36 mg	
	1 mg	0.000 4 mg	
Commercial Test Weights NIST Class F	25 kg 20 kg 10 kg 50 lb 25 lb 20 lb 10 lb 5 lb 1 lb	0.12 g 0.12 g 0.12 g 0.12 g 0.12 g 0.12 g 0.71 mg 0.5 mg 0.13 mg	ASTM Class 1 Weights ASTM Class 2 Weights Sartorius isi20 Sartorius CCE5004
Commercial Test Weights NIST Class F	25 kg 20 kg 10 kg 50 lb 25 lb 20 lb 10 lb 5 lb 1 lb	0.12 g 0.12 g 0.12 g 0.12 g 0.12 g 0.12 g 0.71 mg 0.5 mg 0.13 mg	ASTM Class 1 Weights ASTM Class 2 Weights Sartorius isi20 Sartorius CCE5004
Laboratory Balances [1]	Up to 300 g	0.45 mg	ASTM Class 1 Weights
Top Loading Balances [1]	Up to 20 000 g	5.16 mg	ASTM Class 2 Weights
Industrial Scales [1]	Up to 500 lb (500 to 3 000) lb (3 000 to 10 000) lb	0.004 4 lb 0.05 lb 0.41 lb	NIST Class F Weights
Heavy Capacity Scales [1]	(10 000 to 30 000) lb (30 000 to 90 000) lb (90 000 to 100 000) lb	2.04 lb 4.12 lb 8.19 lb	
Pressure	(150 to 1500) psi (1500 to 15 000) psi	(0.08 + 0.06 % of reading) psi (0.17 + 0.13 % of reading) psi	Amtek T-150 Deadweight Tester

Thermodynamic

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Temperature	(-20 to 100) ^{O}C (20 to 350) ^{O}C	0.12 ^{O}C 0.12 ^{O}C	Hart Temperature Probe and Bath Hart Temperature Probe and Dri-Block

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2. Gerhart Scale Corporation has resident technicians in Painted Post, NY; Allentown, PA; Newark, DE; and Pennsauken, PA.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1345.

Vice President