



SCOPE OF ACCREDITATION TO ISO 17025:2017
& ANSI/NCSL Z540-1-1994

ABEK LLC d.b.a.
THOMSON PRECISION BALL COMPANY
492 Birch Street
Bristol, CT 06010
Manish Patel Phone: 860 314 3904
Fax: 860 314 3942

CALIBRATION

Valid To: February 29, 2024

Certificate Number: 1052.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1,3}:

I. Dimensional

Parameter/Equipment	Range	CMC ² (±)	Comments
Ball Diameter	(0.02 to 2.0) in	6.7 µin	Masterball comparison
Sphericity	Up to 200 µin	1.4 µin	Roundness machine
Surface Finish – Ra	(0.039 to 0.25) in (0.25 to 0.500) in ≥ 0.500 in	0.059 µin 0.061 µin 0.066 µin	Profilometer

¹ This laboratory offers commercial calibration service.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ This scope meets A2LA's *P112 Flexible Scope Policy*.



Accredited Laboratory

A2LA has accredited

ABEK LLC D.B.A. THOMAS PRECISION BALL COMPANY

Bristol, CT

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and R205 – Specific Requirements: Calibration Laboratory Accreditation Program. 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).



Presented this 31st day of January 2022.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1052.01
Valid to February 29, 2024

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.