



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

APPLIED TECHNICAL SERVICES, LLC.  
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CHEMICAL

Valid To: January 31, 2026

Certificate Number: 1888.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following chemical analyses on metals, non-metals, polymers, liquids, toys, children’s products, and juvenile furniture.<sup>1</sup>

| <u>Test(s):</u>   | <u>Test Method(s):</u>   |
|---|--|
| Optical Emissions Spectroscopy (OES)<br>(Al, As, B, Be, Bi, C, Ca, Cd, Ce, Co, Cr, Cu, Fe, Ga, In, Li, Mg, Mn, Mo, N, Na, Nb, Ni, P, Pb, S, Sb, Se, Si, Sn, Sr, Ta, Te, Ti, V, W, Zn, Zr)   | ASTM E415, E1086, E1251, E3047   |
| X-Ray Fluorescence (ED-XRF)<br>(Ag, Al, Bi, Co, Cr, Cu, Fe, Mn, Mo, Nb, Ni, Pb, Pd, Sb, Se, Sn, Ti, V, W, Zn, Zr)   | ASTM E1476 (Section 7.1)   |
| X-Ray Fluorescence (WD-XRF, Wave Length Dispersive)   | ASTM E572, E1085, E1621, E2465   |
| Combustion (S, C, N, O, H)  | ASTM E1019, E1447, E1409, E1941  |
| SEM/EDS   | ASTM E1508   |
| X-Ray Diffraction (XRD)   | ATS-962; ASTM D934   |
| Inductively Coupled Plasma (ICP)<br>(Ag, Al, Ar, As, Au, B, Ba, Be, Bi, Br, Ca, Cd, Ce, Cl, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hf, Hg, Ho, I, In, Ir, K, La, Li, Lu, Mg, Mn, Mo, Na, Nb, Nd, Ni, Os, P, Pb, Pd, Pr, Pt, Pu, Rb, Re, Rh, Ru, S, Sb, Sc, Se, Si, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr) | ASTM E1479   |
| Lead by Inductively Coupled Plasma (ICP)  | ASTM E1613 (Withdrawn in 2021)   |
| Soluble Metals  | ASTM F963-17<br>(Section 4.3.5.2 and Section 8.3)                                    |
| Determining Lead Content in Substrates or Children's Toys   | ASTM E1479 or E1613 (Withdrawn in 2021);<br>ASTM F963-17 (Section 8.3 or ASTM E1645) |
| Surface Coating Materials – Soluble Test for Metals   | ASTM F963-17 (Section 4.3.5.1(2))  |
| Toy Substrate Materials   | ASTM F963-17 (Section 4.3.5.2)   |
| Determining Total Lead in Paint and Other Similar Surface Coatings  | 16 CFR 1303 using CPSC-CH-E1003-09   |

| <b><u>Test(s):</u></b>  | <b><u>Test Method(s):</u></b>                                    |
|---|--|
| Determining Total Lead in Children's Metal Products, including Children's Metal Jewelry   | CPSC-CH-E1001-08   |
| Determining Total Lead in Non-Metal Children's Products   | CPSC-CH-E1002-08   |
| Standard Operating Procedures for Determining Phthalates (DnBP, DnHP, DnOP, BBP, DEHP, DIBP, DiDP, DINP, DCHP, DPENP, DMIP, DPIP) | CPSC-CH-C1001-09.4   |
| Analysis of Bisphenol A (BPA) by LC/MS/MS   | ATS 367  |
| Organic Emissions of Non-Metallic Materials for Automobile (Marks Instrumentation)  | VDA 278  |
| Determination of Volatile and Semi-Volatile Organic Compounds from Vehicle Interior Materials                                     | GMW 15634  |
| Determination of Aldehyde and Ketone Emissions  | GMW 15635  |
| Substances of Concern Materials and Components Constituents and Emissions   | BMW GS 93008-4   |
| Substances of Concern Prohibited and Declarable Substances in Materials and Components  | GS 93008-1, GS 93008-2 (As it pertains to VDA 278)               |
| Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings            | EPA 24, includes: ASTM D1475, ASTM D2369, ASTM D4017, ASTM D4457 |
| Toyota Engineering: Substances of Concern Materials and Components Constituents and Emissions                                     | TSM 0508G  |
| Non-Metallic Materials in Automotive Interior Trim; Determination of Emission of Organic Compounds                                | PV 3341  |
| Polymer Materials; Measuring Emissions of Formaldehyde  | PV 3925  |
| Sample Preparation and Chemical Characterization of Medical Device Materials  | ISO 10993-12, ISO 10993-18                                       |
| DSC   | ASTM D3418, E1356, E793, E794                                    |
| DMA   | ASTM D5023, D5026, D5418, D4065, E1640                           |
| TGA   | ASTM E1131, E1641, E1868   |
| TMA   | ASTM E1545, E831   |
| FTIR  | ASTM E1252   |
| Ion Chromatography (IC)   | ASTM D4327   |
| Specific Gravity / Density  | ASTM D792 (Method A); ISO 1183-1                                 |
| Brookfield Viscometer   | ASTM D2196   |
| Electrical Conductivity of Solutions  | ASTM D1125   |
| Capillary Viscometers   | ASTM D445, D446  |
| pH  | ASTM E70   |
| Wet Chemistry   | ASTM D808, D512  |

<sup>1</sup> The Consumer Product Safety Improvement Act (CPSIA) requires that every children's product subject to a federal consumer product safety requirement be tested by a Consumer Product Safety Commission (CPSC) accepted laboratory for compliance with the applicable federal children's product safety requirements. Accreditation by A2LA does not infer acceptance by the CPSC. Please verify this organization's acceptance status by using the CPSC's searchable database, located at <http://www.cpsc.gov/cgi-bin/labsearch/>



# Accredited Laboratory

A2LA has accredited

## APPLIED TECHNICAL SERVICES, LLC

*Marietta, GA*

for technical competence in the field of

### Chemical Testing

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 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 25<sup>th</sup> day of April 2024.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 1888.02  
Valid to January 31, 2026

*For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.*