



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

APPLIED TECHNICAL SERVICES, LLC.  
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CHEMICAL

Valid To: January 31, 2022

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>

**Test**

**Specification**

Optical Emissions Spectroscopy (OES) (Li, Be, B, C, N, Na, Mg, Al, Si, P, S, Ca, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, As, Se, Sr, Nb, Mo, Zr, Cd, In, Sn, Sb, Te, Ce, Pb, Ta, W, Bi)	ASTM E415, E1086, E1251, E1507
X-Ray Fluorescence (XRF) (Sb, Sn, Pd, Ag, Al, Mo, Nb, Zr, Bi, Pb, Se, W, Zn, Cu, Ni, Co, Fe, Mn, Cr, V, Ti)	ASTM E1476 (Section 7.1)
XRF (Wave Length Dispersive)	ASTM E572, E1085, E1621, E2465
Combustion (S, C, N, O, H)	ASTM E1019, E1447
SEM/EDS	ASTM E1508
X-Ray Diffraction (XRD)	ATS-962, ASTM D934
Inductively Coupled Plasma (ICP) (Li, Be, B, Na, Mg, Al, Si, P, S, Cl, Ar, K, Ca, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, Ge, As, Se, Br, Rb, Sr, Y, Zr, Nb, Mo, Ru, Rh, Pd, Ag, Cd, In, Sn, Sb, Te, I, Cs, Ba, La, Hf, Ta, W, Re, Os, Ir, Pt, Au, Hg, Tl, Pb, Bi, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Th, U, Pu)	ASTM E1479
Lead by Inductively Coupled Plasma (ICP)	ASTM E1613
Soluble Metals <sup>1</sup>	ASTM F963-17 (Section 4.3.5.2 and Section 8.3)
Determining Lead Content in Substrates or Children's Toys <sup>1</sup>	ASTM E1479 or E1613; ASTM F963-17 (Section 8.3 or ASTM E1645)
Surface Coating Materials – Soluble Test for Metals <sup>1</sup>	ASTM F963-17 Section 4.3.5.1(2)
Toy Substrate Materials <sup>1</sup>	ASTM F963-17 Section 4.3.5.2
Determining Total Lead in Paint and Other Similar Surface Coatings <sup>1</sup>	16 CFR 1303 using CPSC-CH-E1003-09

**Test**

Determining Total Lead in Children's Metal Products, including Children's Metal Jewelry<sup>1</sup>  
Determining Total Lead in Non-Metal Children's Products<sup>1</sup>  
Toy Safety: Migration of Certain Elements<sup>1</sup>  
Standard Operating Procedures for Determining Phthalates<sup>1</sup> (DnBP, DnHP, DnOP, BBP, DEHP, DIBP, DiDP, DINP, DCHP, DPENP, DMIP, DPIP)  
Analysis of Bisphenol A (BPA) by LC/MS/MS  
Organic Emissions of Non-Metallic Materials for Automobile (Marks Instrumentation)  
Determination of Volatile and Semi-Volatile Organic Compounds from Vehicle Interior Materials  
Determination of Aldehyde and Ketone Emissions Substances of Concern Materials and Components Constituents and Emissions  
Substances of Concern Prohibited and Declarable Substances in Materials and Components  
Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings  
Toyota Engineering: Substances of Concern Materials and Components Constituents and Emissions  
Non-Metallic Materials in Automotive Interior Trim; Determination of Emission of Organic Compounds  
Polymer Materials; Measuring Emissions of Formaldehyde  
Components in Passenger Compartment Odor Test  
DSC  
DMA  
TGA  
TMA  
FTIR  
Ion Chromatography (IC)  
Specific Gravity  
Brookfield Viscometer  
Electrical Conductivity of Solutions  
Capillary Viscometers  
pH  
Wet Chemistry

**Specification**

CPSC-CH-E1001-08  
CPSC-CH-E1002-08  
EN-71: Part 3  
CPSC-CH-C1001-09.4  
ATS 367  
VDA 278  
GMW 15634  
GMW 15635  
BMW GS 93008-4  
GS 93008-1, GS 93008-2 As it pertains to VDA 278  
EPA 24, includes:  
ASTM D1475, ASTM D2369, ASTM D4017, ASTM D4457  
TSM 0508G  
PV 3341  
PV 3925  
PV 3900  
ASTM D3418, E1356, E793, E794  
ASTM D5023, D5026, D5418, D4065, E1640  
ASTM E1131, E1641, E1868  
ASTM E1545, E831  
ASTM E1252  
ASTM D4327  
ASTM D792 Method A; ISO 1183-1  
ASTM D2196  
ASTM D1125  
ASTM D445, D446  
ASTM E70  
ASTM E53, 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 SERVCIES, 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 14<sup>th</sup> day of February 2020.

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

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 1888.02  
Valid to January 31, 2022  
Revised March 10, 2021

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