



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

AM TESTING & SERVICES, INC.
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MECHANICAL

Valid To: July 31, 2019

Certificate Number: 3180.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests in conformance with applicable Good Laboratory Practice (GLP) Regulations per 21 CFR 58, 210, 211, and 820 on: children's toys, ceramics, glassware, paint and other surface coatings¹:

Test/Tested Product

Test Method(s)

Toys / Children's Products

Material Quality

ASTM F963-11 (Section 4.1),
ASTM F963-16 (Section 4.1);
ASTM F963-17 (Section 4.1);
EN 71-1:2014 (Sections 4.1 and 8.10)

Flammable Solids / Removable Wear

ASTM F963-11 (Section 4.2, Annex A4, and Annex A6),
ASTM F963-16 (Section 4.2, Annex A4, and Annex A6);
ASTM F963-17 (Section 4.2, Annex A4, and Annex A6);
16 CFR 1500.3(c)(6)(vi), 1500.44; EN 71-2:2011

Stuffing Materials

ASTM F963-11 (Section 4.3.7),
ASTM F963-16 (Section 4.3.7);
ASTM F963-17 (Section 4.3.7);
EN 71-1:2014 (Section 5.2)

Electronically Operated Toys

ASTM F963-11 (Section 4.4),
ASTM F963-16 (Section 4.4);
ASTM F963-17 (Section 4.4); 16 CFR 1505

Sound Producing Toys (Including Cap and Toy Guns)

ASTM F963-11 (Section 4.5),
ASTM F963-16 (Section 4.5);
ASTM F963-17 (Section 4.5);
16 CFR Part 1500.18(a)(5), 1500.47;
EN 71-1:2014 (Section 4.20)

Test/Tested Product

Test Method(s)

Toys / Children's Products (cont'd)

Small Parts Rule / Small Objects

ASTM F963-11 (Section 4.6),
ASTM F963-16 (Section 4.6);
ASTM F963-17 (Section 4.6); 16 CFR Part 1501;
EN 71-1:2014 (Section 7.2)

Labeling of Misbranded Toys

ASTM F963-11 (Section 4.6.3),
ASTM F963-16 (Section 4.6.3);
ASTM F963-17 (Section 4.6.3); 16 CFR Part 1500.19
EN 71-1:2014 (Section 7.2)

Sharp Edges / Accessible Edges

ASTM F963-11 (Section 4.7),
ASTM F963-16 (Section 4.7);
ASTM F963-17 (Section 4.7); 16 CFR Part 1500.49;
EN 71-1:2014 (Sections 4.7, 7.6 and 8.11)

Projections

ASTM F963-11 (Section 4.8),
ASTM F963-16 (Section 4.8);
ASTM F963-17 (Section 4.8);
EN 71-1:2014 (Section 4.9)

Sharp Points / Accessible Points

ASTM F963-11 (Section 4.9),
ASTM F963-16 (Section 4.9);
ASTM F963-17 (Section 4.9); 16 CFR 1500.48;
EN 71-1:2014 (Section 8.12)

Wires and/or Rods

ASTM F963-11 (Section 4.10),
ASTM F963-16 (Section 4.10);
ASTM F963-17 (Section 4.10);
EN 71-1:2014 (Section 4.8)

Nails and Fasteners

ASTM F963-11 (Section 4.11),
ASTM F963-16 (Section 4.11)
ASTM F963-17 (Section 4.11)

Plastic Film

ASTM F963-11 (Section 4.12),
ASTM F963-16 (Section 4.12);
ASTM F963-17 (Section 4.12);
EN 71-1:2014 (Sections 4.3, 5.3, 6 and 8.25.1)

Folding Mechanisms and Hinges

ASTM F963-11 (Section 4.13),
ASTM F963-16 (Section 4.13);
ASTM F963-17 (Section 4.13);
EN 71-1:2014 (Sections 4.10.1, 4.10. 3, 4.10.4 and 8.18.2)

Cords, Straps and Elastics

ASTM F963-11 (Section 4.14),
ASTM F963-16 (Section 4.14);
ASTM F963-17 (Section 4.14);
EN 71-1:2014 (Sections 4.13, 5.4 and 8.19)



Test/Tested Product

Test Method(s)

Toys / Children's Products (cont'd)

Stability and Over-Load Requirements

ASTM F963-11 (Section 4.15),
ASTM F963-16 (Section 4.15);
ASTM F963-17 (Section 4.15);
EN 71-1:2014 (Sections 4.15.1.4)

Confined Spaces

ASTM F963-11 (Section 4.16),
ASTM F963-16 (Section 4.16);
ASTM F963-17 (Section 4.16);
EN 71-1:2014 (Sections 4.4, 4.14.1 and 4.14.2)

Wheels, Tires and Axles

ASTM F963-11 (Section 4.17),
ASTM F963-16 (Section 4.17)
ASTM F963-17 (Section 4.17)

Holes, Clearances and Accessibility of Mechanisms

ASTM F963-11 (Section 4.18),
ASTM F963-16 (Section 4.18)
ASTM F963-17 (Section 4.18)

Simulated Protective Devices

ASTM F963-11 (Section 4.19),
ASTM F963-16 (Section 4.19);
ASTM F963-17 (Section 4.19);
EN 71-1:2014 (Section 7.8)

Pacifiers with Rubber Nipples

ASTM F963-11 (Section 4.20.1),
ASTM F963-16 (Section 4.20.1);
ASTM F963-17 (Section 4.20.1); 16 CFR Part 1511

Toy Pacifiers

ASTM F963-11 (Section 4.20.2),
ASTM F963-16 (Section 4.20.2);
ASTM F963-17 (Section 4.20.2); 16 CFR Part 1511

Projectile Toys

ASTM F963-11 (Section 4.21),
ASTM F963-16 (Section 4.21);
ASTM F963-17 (Section 4.21);
EN 71-1:2014 (Sections 4.17, 7.7, 8.24.1 and 8.24.2)

Teethers and Teething Toys

ASTM F963-11 (Section 4.22),
ASTM F963-16 (Section 4.22);
ASTM F963-17 (Section 4.22);
EN 71-1:2014 (Sections 5.8 and 7.12)

Rattles with Nearly Spherical Hemispherical, or Circular Flared Ends

ASTM F963-11 (Section 4.23.1),
ASTM F963-16 (Section 4.23.1);
ASTM F963-17 (Section 4.23.1); 16 CFR Part 1510

Squeeze Toys

ASTM F963-11 (Section 4.24),
ASTM F963-16 (Section 4.24)
ASTM F963-17 (Section 4.24)



Test/Tested Product

Test Method(s)

Toys / Children's Products (cont'd)

Battery Operated Toys	ASTM F963-11 (Section 4.25), ASTM F963-16 (Section 4.25); ASTM F963-17 (Section 4.25); EN 71-1:2014 (Section 4.11)
Toys Intended to be Attached to a Crib or Playpen	ASTM F963-11 (Section 4.26), ASTM F963-16 (Section 4.26) ASTM F963-17 (Section 4.26)
Stuffed and Beanbag-Type Toys	ASTM F963-11 (Section 4.27), ASTM F963-16 (Section 4.27); ASTM F963-17 (Section 4.27); EN 71-1:2014 (Section 8.4.2.2)
Stroller and Carriage Toys	ASTM F963-16 (Section 4.28) ASTM F963-17 (Section 4.28)
Art Materials	ASTM F963-16 (Section 4.29) ASTM F963-17 (Section 4.29)
Toy Gun Marking	ASTM F963-11 (Section 4.30), ASTM F963-16 (Section 4.30) ASTM F963-17 (Section 4.30)
Certain Toys with Nearly Spherical Ends	ASTM F963-11 (Section 4.32), ASTM F963-16 (Section 4.32); ASTM F963-17 (Section 4.32); EN 71-1:2014 (Sections 5.8, 5.11, 5.12 and 8.16)
Marbles	ASTM F963-16 (Section 4.33) ASTM F963-17 (Section 4.33)
Small Balls	ASTM F963-11 (Section 4.34), ASTM F963-16 (Section 4.34); ASTM F963-17 (Section 4.34); EN 71-1:2014 (Sections 4.22 and 5.10)
Pompoms	ASTM F963-11 (Section 4.35), ASTM F963-16 (Section 4.35) ASTM F963-17 (Section 4.35)
Hemispheric-Shaped Objects	ASTM F963-11 (Section 4.36), ASTM F963-16 (Section 4.36); ASTM F963-17 (Section 4.36); EN 71-1:2014 (Section 5.8)
Magnets	ASTM F963-11 (Section 4.38), ASTM F963-16 (Section 4.38); ASTM F963-17 (Section 4.38); EN 71-1:2014 (Section 4.25)



Test/Tested Product

Test Method(s)

Toys / Children's Products (cont'd)

Jaw Entrapment in Handles and Steering Wheels

ASTM F963-11 (Section 4.39),
ASTM F963-16 (Section 4.39)
ASTM F963-17 (Section 4.39)

Expanding Materials

ASTM F963-16 (Section 4.40)
ASTM F963-17 (Section 4.40)
EN 71-1:2014 (Sections 4.6 and 8.14)

Toy Chests

ASTM F963-16 (Section 4.41)
ASTM F963-17 (Section 4.41)
EN 71-1:2014 (Sections 4.14 and 8.31)

Producer's Markings

ASTM F963-16 (Section 7.1)
ASTM F963-17 (Section 7.1)

Battery-Powered Ride-on Toys

ASTM F963-16 (Section 7.2)
ASTM F963-17 (Section 7.2)

Toy Chests

ASTM F963-16 (Section 7.3)
ASTM F963-17 (Section 7.3)

Glass and Porcelain

EN 71-1:2014 (Sections 4.5 and 5.7)

Toys Containing a Heat Source / Measurement of Temperature Rises

EN 71-1:2014 (Sections 4.21 and 8.30)

Liquid Filled Toys

EN 71-1:2014 (Sections 5.5 and 8.15)

Toys Comprising Monofilament Fibers

EN 71-1:2014 (Sections 5.9 and 7.17)

Suction Cups

EN 71-1:2014 (Section 5.13)

Soaking Test

EN 71-1:2014 (Section 8.9)

Use and Abuse Testing

Normal Use Testing

ASTM F963-11 (Section 8.5),
ASTM F963-16 (Section 8.5);
ASTM F963-17 (Section 8.5);
EN 71-1:2014 (Sections 8.3, 8.4, 8.5, 8.7, 8.8 and 8.13)

Impact / Drop Test

ASTM F963-11 (Section 8.7),
ASTM F963-16 (Section 8.7);
ASTM F963-17 (Section 8.7);
16 CFR 1500.50, 1500.51b, 1500.52b, 1500.53b;
EN 71-1:2014 (Sections 8.5, 8.6 and 8.7)



Test/Tested Product

Test Method(s)

Use and Abuse Testing (cont'd)

Torque	ASTM F963-11 (Section 8.8), ASTM F963-16 (Section 8.8); ASTM F963-17 (Section 8.8); 16 CFR 1500.50, 1500.51e, 1500.52e, 1500.53e; EN 71-1:2014 (Section 8.3)
Tension	ASTM F963-11 (Section 8.9), ASTM F963-16 (Section 8.9); ASTM F963-17 (Section 8.9); 16 CFR 1500.50, 1500.51f, 1500.52f, 1500.53f; EN 71-1:2014 (Sections 8.4.1, 8.4.2.2 and 8.4.2.3)
Compression	ASTM F963-11 (Section 8.10), ASTM F963-16 (Section 8.10); ASTM F963-17 (Section 8.10); 16 CFR 1500.50, 1500.51g, 1500.52g, 1500.53g; EN 71-1:2014 (Section 8.8)
Bite	16 CFR 1500.50, 1500.51c, 1500.52c, 1500.53c;
Flexure	ASTM F963-11 (Section 8.12), ASTM F963-16 (Section 8.12); ASTM F963-17 (Section 8.12); 16 CFR 1500.50, 1500.51d, 1500.52d, 1500.53d; EN 71-1:2014 (Section 8.13)
Magnets	ASTM F963-11 (Section 8.25), ASTM F963-16 (Section 8.25); ASTM F963-17 (Section 8.25); EN 71-1:2014 (Section 4.23 and 8.34)

Flammability of Textiles

Flammability of Clothing	16 CFR 1610
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Labeling Requirements and Instructional Literature

Aquatic Toys	ASTM F963-11 (Section 5.4), ASTM F963-16 (Section 5.4); ASTM F963-17 (Section 5.4); EN 71-1:2014 (Section 7.4)
Crib and Playpen Toys (Including Age Grading and Safety Labeling)	ASTM F963-11 (Sections 5.5 and 6.2), ASTM F963-16 (Sections 5.5 and 6.2) ASTM F963-17 (Sections 5.5 and 6.2)
Mobiles (Including Age Grading and Safety Labeling)	ASTM F963-11 (Sections 5.6 and 6.3), ASTM F963-16 (Sections 5.6 and 6.3) ASTM F963-17 (Sections 5.6 and 6.3)



Test/Tested Product

Test Method(s)

Labeling Requirements and Instructional Literature
(cont'd)

Stroller and Carriage Toys	ASTM F963-11 (Section 5.7), ASTM F963-16 (Section 5.7) ASTM F963-17 (Section 5.7)
Toys Intended to be Assembled by an Adult	ASTM F963-11 (Sections 5.8 and 6.4), ASTM F963-16 (Sections 5.8 and 6.4); ASTM F963-17 (Sections 5.8 and 6.4); EN 71-1:2014 (Section 4.2)
Simulated Protective Devices	ASTM F963-11 (Section 5.9), ASTM F963-16 (Section 5.9) ASTM F963-17 (Section 5.9)
Toys with Functional Sharp Edges or Points	ASTM F963-11 (Section 5.10), ASTM F963-16 (Section 5.10) ASTM F963-17 (Section 5.9)
Small Objects, Small Balls, Marbles, Balloons	ASTM F963-11 (Section 5.11), ASTM F963-16 (Section 5.11); ASTM F963-17 (Section 5.11); EN 71-1:2014 (Sections 4.12 and 7.3)
Toy Caps	ASTM F963-11 (Section 5.12), ASTM F963-16 (Section 5.12) ASTM F963-17 (Section 5.12)
Labeling of Hazardous Art Materials (LHAMA)	ASTM D4236, ASTM F963-11 (Section 5.13), ASTM F963-16 (Section 5.13); ASTM F963-17 (Section 5.13); 16 CFR Part 1500.14(b)(8)
Electric Toys	ASTM F963-11 (Section 5.14), ASTM F963-16 (Section 5.14) ASTM F963-17 (Section 5.14)
Battery Operated Toys	ASTM F963-11 (Sections 5.15 and 6.5), ASTM F963-16 (Sections 5.15 and 6.5) ASTM F963-17 (Sections 5.15 and 6.5)
Battery Powered Ride On Toys	ASTM F963-11 (Sections 5.15.1 and 6.5.3), ASTM F963-16 (Sections 5.15.1 and 6.5.3) ASTM F963-17 (Sections 5.15.1 and 6.5.3)
Promotional Materials	ASTM F963-11 (Section 5.16), ASTM F963-16 (Section 5.16) ASTM F963-17 (Section 5.16)



Test/Tested Product

Test Method(s)

Labeling Requirements and Instructional Literature
(cont'd)

Magnets	ASTM F963-11 (Section 5.17), ASTM F963-16 (Section 5.17) ASTM F963-17 (Section 5.17)
Toys in Contact with Food	ASTM F963-11 (Section 6.6), ASTM F963-16 (Section 6.6) ASTM F963-17 (Section 6.6)
Functional Toys	EN 71-1:2014 (Section 7.5)
Toy Kites	EN 71-1:2014 (Section 7.9)
Roller Skates, Inline Skates and Toy Skateboards	EN 71-1:2014 (Section 7.10)
Toys Intended to be Strung Across a Cradle, Cot, or Perambulator	EN 71-1:2014 (Section 7.11)
Percussion Caps Specifically Designed for Use in Toys	EN 71-1:2014 (Section 7.13)
Acoustics	EN 71-1:2014 (Section 7.14)
Toy Bicycles	EN 71-1:2014 (Section 7.15)
Toys Intended to Bear the Mass of a Child	EN 71-1:2014 (Section 7.16)
Small Scooters	EN 71-1:2014 (Section 7.18)
Rocking Horses and Similar Toys	EN 71-1:2014 (Section 7.19)

Children's and Juvenile Products

High Chairs	ASTM F 404-16a
Non-Full Size Cribs	ASTM F 406-10a; ASTM F 406-15; 16 CFR 1220
Carriages and Strollers	ASTM F 833-15; 16 CFR 1227
Infant Walkers	ASTM F 977-12; 16 CFR 1216
Gates and Enclosures	ASTM F1004-16
Bunk Beds	ASTM F1427-13; 16 CFR 1513
Full Size Cribs	ASTM F1169-13; 16 CFR 1219
Toddler Beds	ASTM F1821-13 ² ASTM F1821-16; 16 CFR 1217



Test/Tested Product

Test Method(s)

Infant Bedding and Related Accessories

ASTM F1917-12;

Children's and Juvenile Products (cont'd)

Hand Held Infant Carriers

ASTM F2050-13a; ASTM F2050-16; 16 CFR 1225

Portable Bed Rails

ASTM F2085-12; 16 CFR 1224

Bassinets and Cradles

ASTM F2194-13; ASTM F2194-16e; 16 CFR 1218

Soft Infant Carriers

ASTM F2236-14; ASTM F2236-16a; 16 CFR 1226

Baby Changing Tables for Domestic Use

ASTM F2388-16

Booster Seats

ASTM F2640-14

Infant Bath Tubs

ASTM F2670-17

Sling Carriers

ASTM F2907-15; 16 CFR 1228

Chemical Tests

(Using Inductively Coupled Plasma (ICP)):

Eight Heavy Elements (Metals) in Toys and Children's Products

ASTM F963-11 (Section 4.3.5.2),
ASTM F963-16 (Sections 4.3.5.1(2) and 4.3.5.2)
ASTM F963-17 (Sections 4.3.5.1(2) and 4.3.5.2)

Lead and Cadmium Contamination in Ceramic Ware

ASTM F963-11 (Section 4.3.3.2),
ASTM F963-16 (Section 4.3.3.2);
ASTM F963-17 (Section 4.3.3.2);
ASTM C 738-94(2016), ASTM C 927-80(2014)

Lead in Children's Metal Products (Including Children's Metal Jewelry)

CPSC-CH-E1001-08; EPA Method 3051A

Lead in Children's Non-Metal Products (Excluding Silica)

CPSC-CH-E1002-08; EPA Method 3051A

Lead in Paint and Other Similar Surface Coatings

16 CFR 1303;
CPSC-CH-E1003-09

(Using Gas Chromatography–Mass Spectrometry (GC-MS)):

Phthalate Content

CPSC-CH-C1001-09.3; CPSC-CH-C1001-09.4



Test/Tested Product

Test Method(s)

¹ 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/>.

² This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.





Accredited Laboratory

A2LA has accredited

AM TESTING & SERVICES, INC.

Downers Grove, IL

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 8 January 2009).



Presented this 18th day of September 2017.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 3180.01
Valid to July 31, 2019

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