

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY NEW BERLIN INC.

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CHEMICAL

Valid To: August 31, 2026 Certificate Number: 0098.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform chemical analysis of metal and metal alloys and organic material characterization of adhesives, coatings, composites, elastomers, lubricants and plastics using the following tests:

Test Technology	Elements	Test	Third Party Documents		
		Method(s)			
Spectroscopy					
Inductively Coupled Plasma	All Elements Except:	CS-03			
(ICP)	Ac, Am, Ar, At, Bk, Br,				
	C, Cf, Cl, Cm, Es, F,				
	Fm, Fr, H, He, I, Kr, Lr,				
	Md, N, Ne, No, Np, O,				
	Pa, Pm, Po, Ra, Rn, Tc,				
	Xe				
Optical Emission	Al, Ag, As, Au, B, Ba,	CS-05	ASTM E415, E1086,		
Spectroscopy (OES)	Be, Bi, Ca, C, Cd, Ce,		E1251		
	Cr, Co, Cu, Fe, Ga, Ge,				
	Hg, In, La, Li, Md, Mg,				
	Mn, Mo, Na, Ni, Nb, N,				
	P, Pb, Pd, Pr, Pt, Si, S,				
	Sb, Se, Sn, Sr, Ta, Te,				
	Th, Ti, Tl, V, W, Zn, Zr				
Fourier Transform Infrared		PA-01	ASTM E334, E573,		
Spectroscopy (FTIR)			E1252		
(Qualitative)					
Portable X-Ray Fluorescence	Al, Ag, Au, As, Ba, Bi,	$CM-13^2$	ASTM E1476		
Spectroscopy	Br, Cd, Cl, Cr, Co, Cu,				
	Fe, Hg, In, Mn, Mo, Ni,				
	Nb, Pb, Pd, Pt, Sb, Se,				
	Sn, Ti, V, W, Zn, Zr				

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Test Technology	Elements	Test	Third Party Documents			
Method(s)						
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Lead (Pb) Content in Children's Metal Products (Including Children's Metal Jewelry) (using ICP-OES)	Pb	CC-03	CPSC-CH-E1001-08.2			
Lead (Pb) Content in Children's Non-Metal Products	Pb	CS-03	CPSC-CH-E1002-08.2			
Lead (Pb) in Paint and Other Similar Surface Coatings (using ICP-OES)	Pb	CS-03	CPSC-CH-E1003-09, CPSC-CH-E1003-09.1			
Energy Dispersive Spectroscopy (EDS) (Elemental Mapping, Coating Identification)		MA-15	ASTM E1508			
	Combustic					
Combustion (LECO)	C, S	CA-06	ASTM E1019			
	Chromatogra	<u>aphy</u>				
Gas Chromatography/Mass Spectrometry (GC/MS) Determination of Phthalates	8	PA-31	CPSC-CH-C1001-09.4			
Thermal Analysis						
Differential Scanning Calorimetry (DSC)	100	PA-06	ASTM D3418; E793, E794, E1356, E2602			
Oxidative Stability		PA-14	ASTM D3895, E1858 (Method A only)			
Thermogravimetric Analysis (TGA)		PA-04	ASTM E1131			
Thermomechanical Analysis (TMA)		PA-22	ASTM E831, E1545			
Coating Analysis						
Weight of Coatings		CM-01	ASTM A90/A90M, A428; B137, B767; ISO 3892			
Solvent Rub		PC-14	ASTM D4752, D5402; GM9509P			
Miscellaneous Testing						
Density & Interconnected Porosity of Powdered Metal Alloys		CM-02	ASTM B311, B328 (Withdrawn 2009), B962, B963; MPIF Std. 42, MPIF Std. 57; SAE J471D			
Density of Polymers		PA-02	ASTM D792			
Filler Reinforcement of Cured Resins		PA-03	ASTM D2584			



Test Technology	Elements	Test	Third Party Documents		
		Method(s)	_		
Miscellaneous Testing Cont.					
Fluid Resistance		PA-11	ASTM D471, D543,		
		PA-13	D1308, A967/A967M		
			(Practice A, F, G)		
3A Sanitary Standard Test for		CM-08	3A Sanitary Standards		
Plastics & Elastomers		CM-12	18 & 20		
Water Immersion		PA-15	ASTM D570, D870;		
		PC-14	GM9514P (Withdrawn		
			2011)		
Heat Aging		PA-08	ASTM D573, D3045		
		PA-10			
Melt Flow		PA-30	ASTM D1238(Method A),		
			ISO 1133(Procedure A)		
Failure Analysis			Using test methods listed		
			above in accordance with		
			the ASM Handbook		
			Volume 11 and Volume		
			11B		

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/.

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² This laboratory performs field testing.



Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY NEW BERLIN INC.

New Berlin, WI

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 20th day of September 2024.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council Certificate Number 0098.01

Valid to August 31, 2026