



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board/AClass
500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

NSL Analytical Services, Inc.
4450 Cranwood Parkway
Cleveland, OH 44128

has been assessed by AClass
and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the field(s) of

TESTING

Refer to the accompanying Scope(s) of Accreditation for information regarding the types of tests to which this accreditation applies.

AT-1354

Certificate Number

A handwritten signature in black ink, appearing to read "Keith Greenaway", written over a horizontal line.

AClass Approval

Certificate Valid: 10/28/2010-11/23/2012
Version No. 002 Issued: 10/29/2010



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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NSL Analytical Services, Inc.

4450 Cranwood Parkway Cleveland, Ohio 44128
Anil K. Joshi Phone: 216-438-5208

TESTING

Valid to: November 23, 2012 Certificate Number: AT - 1354

I. Chemical

Table with 4 columns: ITEMS, MATERIALS OR PRODUCTS TESTED; SPECIFIC TESTS OR PROPERTIES MEASURED; SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED; *DETECTION LIMIT/ RANGE/ EQUIPMENT. Rows include Metal Alloys, Ceramics, Plastics, Chemicals; Ni / Co base alloys; Metal Alloys, Ceramics, Plastics, chemicals; Metal Alloys; Metal Alloys; Children's Products; Metal Alloys, Ceramics, Plastics, chemicals; Steel, Ni, Ti and Co alloys.



ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	*DETECTION LIMIT/ RANGE/ EQUIPMENT
Titanium, Iron, Powder metal	Hydrogen Analysis	NSL 4024	Combustion or Fusion Leco RH404
Ni, Ti, Fe and Co alloys	Nitrogen Analysis	NSL 4023, 4028	Combustion or Fusion Leco TC436DR, TC 436
Ni, Ti, Fe and Co alloys and ceramics	Oxygen Analysis	NSL 4023, 4028	Leco TC436DR, TC 436
Steel, Ni, Ti and Co alloys	Sulfur Analysis	NSL 4021	Combustion or Fusion Leco CS444LS
Changed Metal Alloys, Ceramics, Plastics, Chemicals	Cl, F, Br, I, NO ₂ , NO ₃ , SO ₄ , PO ₄ , Chlorate, Acetate	NSL 4034, 4016	Ion chromatography Dionex DX500 & DX120
Ni, Ti, Fe, Al and Co alloys	Elemental analysis	NSL 4026	Spark OES Spectro Lab M
Ni, Ti, Fe and Co alloys	Elemental analysis	NSL 4003	XRF analysis Rigaku 3271
Metal Alloys, Ceramics, Plastics	Qualitative Elemental analysis	NSL 4004	Portable XRF Niton-X gun
Ceramics, Chemicals	Elemental analysis	NSL 4010	DCArc Atom Comp 2000
Children's Products	Pb by ICP-MS	NSL 4014 NSL 4027 NSL 4035 NSL 4040	ICP-MS PE Elan 6000, DRCe, DRCeB, DRCII
Children's Products	Pb by ICP-OES	NSL 4030 NSL 4033 NSL 4039	ICP-OES Leeman Profile, PE Optima 5300 and 7300



ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	*DETECTION LIMIT/ RANGE/ EQUIPMENT
Polymers	PBB and PBDE	NSL 4031	GC-MS Varian 4000
Polymers	Phthalates	NSL 4031 NSL 4038 NSL 9002	GC Varian 4000, Perkin Elmer Clarus 600 GC
Polymer Identification	Qualitative Analysis	NSL 4051	FTIR Perkin Elmer Spectrum One with Spotlight 300
Metals, Ceramics, Composites, Polymers, Coatings, Particles Fibers	EDS profile, Surface Morphology, Imaging	NSL 4041	SEM Amray 1830 EDS Detector Oxford 6227 20,000X
Polymers, AR-coated Lenses	Durability, Luminous Reflectance	NSL OTL1070 ISO 8980-4	Ophthalmic QUV, UV-Vis, Linear Abrader
Polymers, AR-coated Lenses	Durability	NSL OTL1071 ISO 8980-5	Ophthalmic Linear Abrader

Notes:

1. * = As Applicable
2. This scope is part of and must be included with the Certificate of Accreditation No. AT-1354



Vice President

