



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Stolk Labs, Inc.

1711 Analog Drive, Richardson, TX 75081

(Hereinafter called the Organization) and hereby declares that Organization 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 (as outlined by the joint ISO-ILAC-IAF Communiqué dated January 2009):

***Chemical, Dimensional, Mechanical and Surface Analysis using
Non-Destructive Testing
(As detailed in the supplement)***

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Initial Accreditation Date:

January 10, 2018

Issue Date:

January 10, 2018

Expiration Date:

March 31, 2020

Tracy Szerszen
President/Operations Manager

Accreditation No.:

96687

Certificate No.:

L18-19

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjllabs.com



Certificate of Accreditation: Supplement

Stolk Labs

1711 Analog Drive, Richardson, TX 75081
 Contact Name: David Stolk Phone: 972-325-1463

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical	Aluminum and its Alloys	Chemical Composition via Optical Emission Spectroscopy (OES)	ASTM E1251	0.000 1 % to 100 %
	Iron and its Alloys	Chemical Composition via OES	ASTM E1086, E415	0.000 01 % to 100 %
	Nickel Alloys		ASTM E3047	
	Metals/Ceramics/Sands/Glass	Carbon & Sulfur Content by Combustion	ASTM E1019	Carbon: 4 ppm to 3.5% Sulfur: 4 ppm to 0.4%
	Organic Materials/Plastics/Polymers	Fourier Transform Infrared Spectroscopy (FTIR)	ASTM E1252, E573, D2702	7 400 cm ⁻¹ to 350 cm ⁻¹
		Micro-FTIR	ASTM E334	7 400 cm ⁻¹ to 600 cm ⁻¹
	Aqueous Solutions	pH Test	ASTM E70	0.00 pH to 14.00 pH
	Plastics/soil/rock	Moisture Content	ASTM D6980, D2216	50 ppm
	Plastics	Ash Content	ASTM D5630	0.01 % ash levels
	Metals	Zinc Coating Weight	ASTM A90/A90M	5 % zinc coating to 100 % zinc coating
Elemental Composition via Wavelength Dispersive Spectroscopy (WDS)		ASTM E1621	0.0001 % to 100%	
Semi-Quantitative Elemental Compositions via Energy Dispersive X-Ray Spectroscopy (EDS)		ASTM E1508	0.04 % to 100 % D.L= 0.01 %	
Non-Destructive	Metals	Critical Dimension Measurement, Elemental Dot Mapping, Phase Analysis, Line Scanning, Hail Damage Analysis via Scanning Electron Microscopy (SEM)	ASTM B748	8 X to 30 000 X 0.001 μm to 16 mm
Mechanical	Plastics/Metallic Materials	Rockwell Hardness	ASTM A370, D785, E18	0.1 HR
	Metallic Materials	Brinell Hardness	ASTM E10, A370	2 HBW to 945 HBW D.L= 0.01 HBW
		Light Load Brinell Hardness	ASTM E103	2 HBW to 945 HBW D.L = 0.001 HRBW
	Metals and other materials	Knoop or Vickers Microhardness	ASTM E384	100 HK to 940 HK or HV D.L= 0.1 HK or HV
	Plastics and Rubber	Durometer Hardness	D2240	0 HSA to 100 HSA D.L = 0.5 HSA
	Metals, Plastics and Welds	Bend Test	ASTM E290, E190	0 lb to 60 000 lb D.L = 1 lb
	Metals	Compression Test	ASTM E9	0 lb to 120 000 lb D.L = 1 lb



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Mechanical	Metals, Plastics	Tension/Tensile Test	ASTM E8/E8M, B557, D638	0 lb to 120 000 lb D.L = 1 lb	
	Metals, Plastics, Adhesives	Shear Test	ASTM D1002, B769, D3846, D3983	0 lb to 60 000 lb D.L = 0.1 PSI	
	Steel, Fasteners	Proof Load	ASTM A370, F606/F606M	0 lb to 120 000 lb D.L = 1 lb	
	Metals	Sub-Size Tensile Test	ASTM E8/E8M	0 lb to 120 000 lb D.L = 0.001 lb	
	Plastics/Polymers	Flexure Test	ASTM D790, D7264/D7264M	0 lb to 250 lb D.L = 0.001 lb	
	Coatings	Finish Adhesion	ASTM D3359	N/A	
	Metals	Impact Test	Average Grain Size	ASTM E112	0.0-10 D.L = 0.05
			Inclusion Content	ASTM E45	0 X to 1 000 X D.L = 1.0 X
			Ferrite Count	ASTM A800/A800M, E562	N/A
			Intergranular Corrosion	ASTM A262	0 g to 150 g D.L = 0.001 g
			Sensitization (Intergranular attack)	ASTM A262, A763	0 g to 160 g D.L = 0.001 g
			Steel	Decarburization	ASTM E1077, F2328
	Metals	Micro examination	Mount/Polish	ASTM E3	0 X to 50 000 X D.L = 1 µm
			Macro-etch	ASTM E340	N/A
			Thickness measurements	ASTM B659	0.1 in to 0.050 in D.L = 0.1 in
	Metals	Visual Examination	ASTM A802, A997	5 X to 3 000 X	
	Adhesives, Metals, Plastics	Temperature/Humidity Testing			-230 °F to 2 400 °F
					0 % RH to 100 % RH
	Nonmetallic, Plastics, Paint, Coatings	UV Testing	ASTM G154, D4329, D4587	N/A	
	Metals, Tile, Panels	Salt Spray	ASTM B117, C635/C635M	0 g/hr to 5 000 g/hr D.L = 1 g	
	Metals	Copper-Accelerated Acetic Acid – Salt Spray (CASS) Testing	ASTM B368	0 g/hr to 5 000 g/hr D.L = 0.5 g	
	Dimensional Inspection	Plastics and Metals	Physical dimensions	ASTM D5947, D2122, A1087	0 in to 12 in D.L = 0.005 in



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Accreditation is granted to the facility to perform the following testing:

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this testing at its fixed location.

