



Accredited Laboratory

A2LA has accredited

CHILWORTH TECHNOLOGY, INC.

Princeton, NJ

for technical competence in the field of

Chemical 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 31st day of May 2017.

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

President and CEO
For the Accreditation Council
Certificate Number 2303.01
Valid to June 30, 2019

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

CHILWORTH TECHNOLOGY, INC.
113 Campus Drive
Princeton, NJ 08540
Vladimir Stetsovsky Phone: 609 799 4449

CHEMICAL

Valid To: June 30, 2019

Certificate Number: 2303.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on powders and liquids used in industrial processes:

<u>Test</u>	<u>Chilworth Method</u>	<u>Reference Test Method</u>
Industrial Explosion Hazards		
Go/No-Go Explosibility Screening (Dust Cloud)	201	US Bureau of Mines, Report 5624
Explosion Severity	203	ASTM E1226
Minimum Ignition Energy (3 mJ – 10 J)	202	ASTM E2019; BS 5958
Minimum Ignition Temperature, Layer	219	ASTM E2021
Minimum Ignition Temperature, Dust Cloud	204	ASTM E1491
Minimum Explosible Concentration	209	ASTM E1515
Burn Rate Test	221	UN/DOT Div. 4.1
Thermal		
Diffusion Cell (Bulk Powder Screening)	215	“Prevention of Fire and Explosion in Dryers”, ISBN 0-85295-257-0
Aerated Powder Screening	214	“Prevention of Fire and Explosion in Dryers”, ISBN 0-85295-257-0
Air Over Layer (Powder Layer Screening)	216	“Prevention of Fire and Explosion in Dryers”, ISBN 0-85295-257-0

(A2LA Cert. No. 2303.01) 05/31/2017

Page 1 of 3

<u>Test</u>	<u>Chilworth Method</u>	<u>Reference Test Method</u>
Thermal (cont'd)		
Differential Scanning Calorimetry/ Differential Thermal Analysis	350	ASTM E698
RC1 Reaction Calorimetry	351	Operator Instructions
Accelerating Rate Calorimetry	352	ASTM E1981
Self Heating Solids Test	236B	EPA Method 1050; UN Recomm-ns
Oxidizing Solids Test	223B	UN Recommendations on Transportation of Dangerous Goods
Carius Tube Test	301	CTI Operating Instructions
Dewar Adiabatic Storage Test (UN H.2)	302	UN Recommendations on Transportation of Dangerous Goods
Dewar Heat Accumulation Test (UN H.4)	303	UN Recommendations on Transportation of Dangerous Goods
Pyrophoric Solids Test	222	UN Recommendations on Transportation of Dangerous Goods
Flammability		
Limiting Oxygen Concentration (LOC)	208	ISO 6184; Kühner Manual; ASTM E2931
Flash Point Determination (Pensky Martens Closed Cup)	227	ASTM D93
Flash Point Determination (Cleveland Open Cup)	227B	ASTM D92
Upper and Lower Flammability Test	211	ASTM E681
Autoignition Temperature of Liquid Chemicals	226	ASTM E659

<u>Test</u>	<u>Chilworth Method</u>	<u>Reference Test Method</u>
Mechanical		
Fall Hammer	308	Bam Fallhammer – Test of Impact Sensitivity DOT/UN Test 3(a)(ii)
Friction	309	Bam Friction – DOT/UN 3(b)(i)
Electrostatic		
Powder Volume Resistivity	206	NFPA 77; BS 5989
Powder Charge Decay	205	NFPA 77; BS 5989
Electrostatic / Powder Chargeability	300	BS 5989
Liquid Conductivity	213	BS 5958; ASTM D2624
Surface Resistivity / Charge Decay	207	BS 5958
Discharge Incendivity Testing of Flexible Intermediate Bulk Containers	242	IEC 61340-4-4
Breakdown Voltage Determination and Propagating Brush Discharge Test	472	IEC 60243-2; ASTM D3755