



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

**Fauske & Associates,
a Division of Stone & Webster, LLC.
16w070 83rd Street
Burr Ridge, IL 60527**

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to be 'J. Stine', is positioned above a horizontal line.

Jason Stine, Vice President

Expiry Date: 30 June 2025

Certificate Number: L2252



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Fauske & Associates, a Division of Stone & Webster, LLC.

16w070 83rd Street
 Burr Ridge, IL 60527
 Brenda Lorenz
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 lorenz@fauske.com

TESTING

Valid to: **June 30, 2025**

Certificate Number: **L2252**

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Accelerating Rate Calorimetry	ASTM E1981	Chemicals	Calorimeter (ARC)
Advanced Reactive System Screening (ARSST)	ARSST SOP	Chemicals	Calorimeter (ARSST)
Differential Scanning Calorimetry (DSC)	ASTM E537	Chemicals, Metals	Calorimeter (DSC)
Thermal Activity Monitor	TAM SOP	Chemicals	Calorimeter (TAM)
VSP2	VSP2 SOP	Chemicals	Calorimeter (VSP2)
Reaction Calorimetry Test	RC SOP	Chemicals	Reaction Calorimeter
pH Determination	pH-Pharma	Dust	Mettler Toledo pH Meter
Micro-Reaction Calorimetry (μ RC)	μ RC SOP	Chemicals	THT μ RC Micro Reaction Calorimeter

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Explosion Severity	ASTM E1226 EN 14034-1 EN 14034-2 Explosion Severity for Combustible Dusts-Pharma	Combustible Dust	20L Explosivity Testing Sphere
Minimum Explosibility Concentration (MEC)	ASTM E1515 EN 14034-3 MEC-Pharma	Combustible Dust	20L Explosivity Testing Sphere
Autoignition Temperature (MIT)	ASTM E1491 EN 50251-2-1 MIT-Pharma	Dust Cloud	BAM Oven; Godbert Greenwald Furnace
Minimum Ignition Energy (MIE)	ASTM E2019 EN13821 MIE-Pharma	Dust Cloud	MIKE3 and CTL04 MIE III
Hot-Surface Ignition Temperature (LIT)	ASTM E2021 EN50281-2-1 LIT-Pharma	Dust	Hot Plate PicoLog Data Logger
Limiting Oxygen Concentration (LOC)	ASTM E2931 EN14034-4 LOC-Pharma	Dust	20-L Explosivity Testing Sphere
Volume and Surface Resistivity	ASTM D257	Dust	Keithley Electrometer
Volume Resistivity	BS 5958 Volume Resistivity-Pharma	Dust	Keithley Electrometer
Charge Relaxation	BS 7506 Powder Relaxation Time - Pharma	Dust	JCI 155v6
Ignitability and Burn Rate	UN DOT Div. 4.1 L383 A10 Train Fire-Pharma	Dust	Butane Torch and Ruler
Melting Point	Melting Point-Pharma	Dust	Melting Point Apparatus
Flammability (Solids)	EC 440 Test A.10	Solids	Butane Torch and Ruler
Relative Self-Ignition Temperature for Solids	EC 440 Test A.16	Solids	Oven PicoLog Data Logger
Drop Weight Impact Sensitivity Test	UN, Series 3, Section 13.5.1 Test 3(a)(ii) EC 440 Test A.14, Part B	Dust	BAM Fallhammer Apparatus

Mechanical

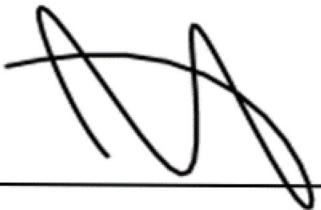
Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Friction Sensitivity Test	UN, Series 3, Section 13.5.1 Test 3(b)(i) EC 440 Test A.14, Part C	Dust	BAM Friction Apparatus
Autoignition Temperature Test (AIT)	ASTM E659 EC 440 A.15	Solid or liquid	AIT Apparatus
Closed Cup Flash Point	ASTM D3278 ASTM D3828 ASTM D56 ASTM D93 EC 440 Test A.9	Liquid	Setaflash Apparatus Pensky Marten Tag Closed Cup Apparatus
Open Cup Flash Point	ASTM D92	Liquid	Cleveland Open Cup
Koenen Test	EC 440 Test A.14, Part A	Solid or liquid	Koenen Apparatus
Upper Flammability Limit / Lower Flammability Limit	ASTM E681 ASTM E918	Gas or liquid	5L Sphere
Limiting Oxygen Concentration (LOC)	ASTM E2079	Gas or liquid	5L Sphere
Minimum Ignition Energy (MIE)	ASTM E582	Gas or liquid	MIE Apparatus
Ignition Temperature of Plastics	ASTM D1929	Solids	Plastic AIT Apparatus
Temperature Limit of Flammability (LTFL)	ASTM E1232	Liquid or solids	5L Sphere
Pyrophoric Properties	EC 440 Test A.13	Liquid or solids	Non-combustible Surface and Meter Stick
Heat of Combustion	ASTM D240	Liquids or Solids	Parr 6200 Calorimeter
Sustained Burning	ASTM D4206 Test L.2 (UN Transport of Dangerous Goods)	Liquids	Small Scale Open Cup Apparatus
Ignition Distance (Based on UN 31.4)	Ignition Distance SOP	Aerosol	Meter Stick
Enclosed Space Ignition (Based on UN 31.5)	Enclosed Space Ignition SOP	Aerosol	55 Gallon Drum
Aerosol Foam Flammability (Based on UN 31.6)	Aerosol Foam Flammability SOP	Aerosol	Watch Glass and Ruler
Liquid Oxidizer (Based on UN O.2)	Liquid Oxidizer SOP	Liquids	Liquid Oxidizer Apparatus
Explosion Severity of Gases and Vapors	EN 15967	Gases and Vapors	5L Sphere

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Fundamental Burning Velocity - Calc	NFPA 68 – Appendix E	Gases and Vapors	N/A
Flammable Solids	UN DOT 4.1 (Test N.1)	Solids	Butane Torch and Ruler
Relative Self-Ignition Temperature for Solids	UN DOT 4.2 (Test N.4)	Dust	Oven PicoLog Data Logger
Pyrophoric Properties	UN DOT Div. 4.2 (Test N.2 & N.3)	Dust or Liquid	Non-combustible Surface and Meter Stick
Flammability (Contact with Water)	UN DOT Div. 4.3 (Test N.5)	Dust or liquid	Graduated Cylinders and Flasks
Oxidizing Properties	UN DOT Div. 5.1 (Test O.1)	Dust	Variac
Explosives Atmospheres	ISO/IEC 80079-20-1:2017	Gases	MESG Test Vessel
Burning Velocity Measurement of Flammable Gases	ISO 817, Annex C	Gases	Test Vessel System
Sustained Combustion	49 CFR 173-H	Liquids	Small Scale Open Cup
Flame Projection – Canada Method	DO-30	Aerosol	Butane Torch and Ruler
Flame Projection	16 CFR 1500.45	Aerosol	Paraffin Candle and Ruler

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. L2252.



Jason Stine, Vice President