



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Secat, Inc.
1505 Bull Lea Road
Lexington, KY 40511

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 read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 12 December 2023
Certificate Number: L2128



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

Secat, Inc.
1505 Bull Lea Road
Lexington, KY 40511
Shridas Ningileri Phone: 859 514 4989

TESTING

Valid to: **December 12, 2023**

Certificate Number: **L2128**

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Yield Strength, Ultimate Tensile Strength, Elongation up to 20 000 lbs uniaxial	ASTM E8 / E8M ASTM B557 ASTM A370 AWS B2.1 ASTM E345	Sheet, Plate, Forging, Extrusions, Billets, Castings, Wires, Foil, Tubes, Welds, Formed Components, P/M Components, Metal Matrix, Composites	Electromechanical Universal Test System; Servo-hydraulic Universal Test System
Tensile Strain Hardening Exponent (n) up to 20 000 lbs uniaxial	ASTM E646	Sheet, Plate, Forging, Extrusions, Billets, Castings, Wires, Foil, Tubes, Welds, Formed Components, P/M Components, Metal Matrix, Composites	Electromechanical Universal Test System; Servo-hydraulic Universal Test System
Plastic Strain Ratio (r) for Sheet Metal up to 20 000 lbs uniaxial	ASTM E517	Requires Sheet Geometry	Electromechanical Universal Test System; Servo-hydraulic Universal Test System
Poisson's Ratio up to 20 000 lbs uniaxial	ASTM E132	Sheet, Plate, Forging, Extrusions, Billets, Castings, Wires, Tubes, Welds, Formed Components, P/M Components, Metal Matrix, Composites	Electromechanical Universal Test System; Servo-hydraulic Universal Test System
Young's Modulus up to 20 000 lbs uniaxial	ASTM E111	Sheet, Plate, Forging, Extrusions, Billets, Castings, Wires, Foil, Tubes, Welds, Formed Components, P/M Components, Metal Matrix, Composites	Electromechanical Universal Test System; Servo-hydraulic Universal Test System



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Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Microhardness	ASTM E384	Sheet, Plate, Forging, Extrusions, Billets, Castings, Wires, Foil, Tubes, Welds, Formed Components, P/M Components, Metal Matrix, Composites	Microhardness Tester (Knoop, Vickers)
Rockwell	ASTM A370 ASTM E18	Sheet, Plate, Forging, Extrusions, Billets, Castings, Wires, Tubes, Welds, Formed Components, P/M Components, Metal Matrix, Composites	Rockwell Hardness Tester (HRC HRB W HRH)
Superficial Rockwell	ASTM A370 ASTM E18	Sheet, Plate, Forging, Extrusions, Billets, Castings, Wires, Tubes, Welds, Formed Components, P/M Components, Metal Matrix, Composites	Rockwell Hardness Tester (HR 30N HR 30T W)
Electrical Conductivity	ASTM E1004	Aluminum, Aluminum Alloys	Eddy Current Conductivity Meter
Forming Limit Curves up to 4 mm for Al up to 2 mm for Steel	ASTM E2218	Sheet Materials	Ductometer; Universal Marking Machine; Servo-hydraulic Universal Test System
Failure Analysis	WI-MC-27	Sheet, Plate, Forging, Extrusions, Billets, Castings, Wires, Foil, Tubes, Welds, Formed Components, P/M Components, Metal Matrix, Composites	Electromechanical Universal Test System; Servo-hydraulic Universal Test System; Scanning Electron Microscope; Optical Microscope; Stereo Microscope; Optical Emission Spectrometer; Rockwell Hardness Tester; Microhardness Tester; Eddy Current Conductivity Meter; Ductometer;
Optical Emission Spectroscopy (OES)	ASTM E1251	Al based Alloys in Chill Cast Disk, Casting, Foil, Sheet, Plate, Extrusion or some other Wrought Form or Shape	Optical Emission Spectrometer

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Scanning Electron Microscopy with Energy Dispersive X-Ray Analysis (SEM-EDS)	WI-MC-1	Sheet, Plate, Forging, Extrusions, Billets, Castings, Wires, Foil, Tubes, Welds, Formed Components, P/M Components, Metal Matrix, Composites	Scanning Electron Microscope

Note:

1. This laboratory offers commercial testing service.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. L2128.



R. Douglas Leonard Jr., VP, PILR SBU

