CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

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

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

ISO/IEC 17025:2005

while demonstrating technical competence in the field of

TESTING

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

L2128
Certificate Number

ANAB Approval

Certificate Valid: 12/09/2017-12/12/2020
Version No. 001 Issued: 12/09/2017

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 April 2017).

ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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

TESTING

Valid to: **December 12, 2020** 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	
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	
Plastic Strain Ratio (r) for Sheet Metal up to 20 000 lbs uniaxial	ASTM E517	Requires Sheet Geometry	
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	Room Temperature
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	

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	Knoop, Vickers
Rockwell	ASTM A370 ASTM E18	Sheet, Plate, Forging, Extrusions, Billets, Castings, Wires, Tubes, Welds, Formed Components, P/M Components, Metal Matrix, Composites	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	HR 30N HR 30T W
Electrical Conductivity	ASTM E1004	Aluminum, Aluminum Alloys	Eddy Current
Forming Limit Curves up to 4 mm for Al up to 2 mm for Steel	ASTM E2218	Sheet Materials	
Failure Analysis	WI-MC-27	Sheet, Plate, Forging, Extrusions, Billets, Castings, Wires, Foil, Tubes, Welds, Formed Components, P/M Components, Metal Matrix, Composites	
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	
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	Back Scattered Secondary Electrons EDS

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.

Vice President