



# CERTIFICATE OF ACCREDITATION

## The ANSI National Accreditation Board

Hereby attests that

**Product Assurance Services, Inc.**

**328 State Street  
St. Marys, PA 15857**

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](http://www.anab.org).

A handwritten signature in black ink, appearing to be 'J. Stine', is located on the left side of the certificate.

Jason Stine, Vice President

Expiry Date: 18 December 2027

Certificate Number: AT-1164



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

### Product Assurance Services, Inc.

328 State Street, St. Marys, PA 15857

Bart Nelson Phone: 814 781 7274

[bnelson@productassurance.net](mailto:bnelson@productassurance.net) [www.productassurance.net](http://www.productassurance.net)

### TESTING

ISO/IEC 17025 Accreditation Granted: **10 December 2025**

Certificate Number: **AT-1164**

Certificate Expiry Date: **18 December 2027**

#### Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Tensile Testing (Test Method)	ASTM E8 MPIF Std. 10	Sintered and Wrought Products	Tinius Olsen Super L 120 000 lbf Max. Modified Dog-Bone Tensile Bar Spring Loaded Tooling
Compression Testing (Test Method)	ASTM E9	Sintered and Wrought Products	Tinius Olsen Super L 120 000 lbf Max.
Hardness Testing (Test Method) Rockwell and Superficial Scales	ASTM E18* MPIF Std. 43*	Sintered and Wrought Products	Wilson Rockwell Hardness Tester Rockwell Scales A,B,C,E,F,G,H Superficial Scales T,N
Microhardness Testing - Knoop (Test Method)	ASTM E384 ASTM B933 MPIF Std. 51	Sintered and Wrought Products	QNESS Micro Hardness Tester Knoop and Vickers Scale
Depth of Decarburization (Test Method)	ASTM E1077	Sintered and Wrought Products	Olympus PME Metallograph 50X, 100X, 200X, 400X, 1000X
Coating Thickness (Test Method)	ASTM B487	Sintered and Wrought Products	Olympus PME Metallograph 50X, 100X, 200X, 400X, 1000X
Case Depth (Test Method)	ASTM B934 MPIF Std. 52	Sintered and Wrought Products	Olympus PME Metallograph 50X, 100X, 200X, 400X, 1000X

## Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Green Strength (Test Method)	ASTM B312 MPIF Std. 15	Green P/M Compacts	IMADA Compression/Tension 100 lbf Max. Tinius Olsen Super L 1000 lbf Max. TRS Bar and K-Value Ring Spring Loaded Tooling
Case Depth (Test Method)	ASTM B931 ASTM B934 MPIF Std 52	Sintered and Wrought Products, Powder and Components	Olympus PME Metallograph QNESS Micro Hardness Tester Knoop and Vickers Scale
Density (Test Method)	ASTM B962* MPIF Std. 42	Green and Sintered P/M Products	Wet Density Scale Capacity Range, 3100 g
Density, Oil Content, Interconnected Porosity (Test Method)	ASTM B963* MPIF Std. 57	Sintered P/M Products	Wet Density Scale Capacity Range, 3100 g
Transverse Rupture Strength (Test Method)	ASTM B528 MPIF Std. 41	Sintered P/M Products	Tinius Olsen Super L 120 000 lbf TRS Bar Fixture Micrometers 0.0001 in Accuracy TRS Bar Spring Loaded Tooling
Dimensional Change (Test Method)	ASTM B610 MPIF Std. 44	Sintered P/M Products	Tinius Olsen Super L 120 000 lbf Micrometers 0.0001 in Accuracy TRS Bar Spring Loaded Tooling
K-Value (Test Method)	ASTM B939 MPIF Std. 55	Sintered P/M Products	Tinius Olsen Super L 120 000 lbf Micrometers/Calipers 0.001 in Accuracy K-Value Ring Spring Loaded Tooling
Compressibility (Test Method)	ASTM B331 MPIF Std. 45	Sintered P/M Products	Tinius Olsen Super L 120 000 lbf Micrometers 0.0001 in Accuracy TRS Bar Spring Loaded Tooling

## Mechanical

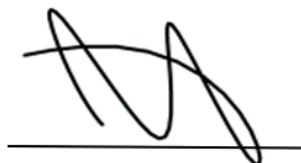
Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Apparent Density (Test Method)	ASTM B212* MPIF Std. 04* ASTM B417* MPIF Std. 28* ASTM B703* MPIF Std. 48*	Powders	Hall Flowmeter Funnel, Carney Funnel, Stand, Density Cup, Arnold Meter Balance 0.001 g readability
Hall Flow Rate (Test Method)	ASTM B213* MPIF Std. 03*	Powders	Hall Flowmeter Funnel, Balance 0.01 g readability, Stopwatch 0.1 s Accuracy
Sieve Analysis (Test Method)	ASTM B214 MPIF Std. 05	Powders	US Series Screens 40M,60M,80M,100M, 200M, 325M, Pan

## Non-Destructive

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Guide for Magnetic Particle Examination (Guide) Recommended Practice – Magnetic Particle Method	ASTM E709* ASTM E1444* SNT-TC-1A-1996*	Sintered and Wrought Products and Components	Magnaflux AC/HWDC/FWDC 6 000 amps Max. Multiple Units
Guide for Resonant Ultrasound (Guide)	ASTM E2001*	Sintered and Wrought Products and Components	RUS Inspection Equipment 50 kHz Max. Range Multiple Units
Practice for Eddy-Current Sorting of Metals (Practice)	ASTM E566 ASTM E703	Sintered and Wrought Products and Components	Eddy Current Inspection 1.5 in Max. Diameter OD
Visual and Gauge Inspections, Practice for Quality Control Systems for Nondestructive Agencies (Practice) Practice for Agencies Performing Nondestructive Testing (Practice)	ASTM E1212* ASTM E543*	Sintered and Wrought Products and Components	Multiple Inspection and Gauging Locations

Note:

1. Methods identified by an asterisk (\*) are also offered as field testing services.



Jason Stine, Vice President

This Scope of Accreditation, version 008, was last updated on: 10 December 2025 and is valid only when accompanied by the Certificate.

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