



Certified Test Report

NIS001-21-08-24463-1



ACCREDITED

Materials Testing Laboratories
NonDestructive Testing

2331 Topaz Drive, Hatfield, PA 19440
TEL: 800-219-9095 • FAX: 800-219-9096

SOLD TO

National Institute of Standards
100 Bureau Drive, Mailstop 855
Bldg 233, Rm A153
Gaithersburg, MD 20899-8555

SHIP TO

National Institute of Standards
100 Bureau Drive, Mailstop 855
Bldg 233, Rm A153
Gaithersburg, MD 20899-8555
ATTN: JordanS. Weaver

CUSTOMER P.O.

credit card

CERTIFICATION DATE

8/20/2021

SHIP VIA

EMAIL

DESCRIPTION

Quantity: 1
Type: Powder
ID: IN625 M342901 V
Material: IN625

Quantity: 1
Type: Solid
ID: 0005-21 Schlenoff Gas Flow Single Tracks #21
Material: IN625

Quantity: 1
Type: Solid
ID: Oak Ridge Tracks 2021 T3
Material: IN625

Quantity: 1
Type: Solid
ID: 01-2021 IN625 Mini Tensile Orientation T3.AMB.625
Material: IN625

CHEMICAL ANALYSIS:

APPLICABLE SPECIFICATIONS: UNS N06625

KEY: C - Conforms NC - Non-Conformance R-Report for Information

<u>ELEMENT</u>	<u>REQUIREMENTS</u>		<u>ID</u>
	<u>MIN</u>	<u>MAX</u>	<u>IN625 M342901 V</u>
Al		0.40%	0.28%
C		0.10%	0.01%
Cb	3.15%	4.15%	3.77%
Cr	20.0%	23.0%	20.8%
Fe		5.0%	0.7%
Mn		0.50%	0.05%
Mo	8.0%	10.0%	8.6%
N			0.019%
Ni	REMAINDER		65.08%
O			0.022%
P		0.015%	0.001%
S		0.015%	0.002%
Si		0.50%	0.11%
Ti		0.40%	0.34%

KEY (C/NC/R):

C

Date Completed: 8/19/2021

Procedures/Methods: MAS-CS, Rev. 7, Carbon and Sulfur Analysis; MAS-ICP, Rev. 25, Analysis of Metals & Their Alloys by ICP; MAS-NOH, Rev. 2, Nitrogen, Oxygen & Hydrogen Analysis



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CHEMICAL ANALYSIS:

APPLICABLE SPECIFICATIONS: UNS N06625

KEY: C - Conforms NC - Non-Conformance R-Report for Information

ELEMENT	REQUIREMENTS		--- ID ---		
	MIN	MAX	0005-21	OAK RIDGE TRACKS	01-2021
Al		0.40%	0.31%	0.31%	0.32%
C		0.10%	0.01%	0.02%	0.01%
Cb	3.15%	4.15%	3.83%	3.92%	3.80%
Cr	20.0%	23.0%	20.4%	20.3%	20.0%
Fe		5.0%	0.8%	0.9%	0.8%
Mn		0.50%	0.04%	0.05%	0.05%
Mo	8.0%	10.0%	8.9%	8.6%	8.8%
N			0.006%	0.0001%	0.0001%
Ni	REMAINDER		65.06%	65.18%	65.56%
P		0.015%	0.006%	0.005%	0.006%
S		0.015%	<0.001%	<0.001%	<0.001%
Si		0.50%	0.09%	0.12%	0.10%
Ti		0.40%	0.38%	0.34%	0.37%

KEY (C/NC/R):

C

C

C

Date Completed: 8/18/2021, /19/2021 and 8/20/2021

Procedures/Methods: 86-SCA-0, Rev. 22, Direct Reading Atom Emissions Spectroscopy; MAS-NOH, Rev. 2, Nitrogen, Oxygen & Hydrogen Analysis

The services performed above were done in accordance with LTI's Quality System Program Manual Revision 21 dated 5/1/2019 and ISO/IEC 17025:2017. These results relate only to the items tested and this report shall not be reproduced, except in full, without the written approval of Laboratory Testing, Inc. The services provided on this certificate have been performed in conformance with the customer's purchase order requirements. L.T.I. is accredited by Nadcap for NDT and Materials Testing for the test methods and specific services as listed in the Scopes of Accreditation available at www.labtesting.com and www.eAuditNet.com. The results reported on this test report represent the actual attributes of the material tested and indicate full compliance with all applicable specification and contract requirements. This is a shared risk decision rule which the customer also has responsibility for determining acceptance of the results.

MERCURY CONTAMINATION: During the testing and inspection, the product did not come in direct contact with mercury or any of its compounds nor with any mercury containing devices employing a single boundary of containment.

NOTE: The recording of false, fictitious or fraudulent statements or entries on this document may be punishable as a felony under Federal Statutes.

Sherri L. Scheifele
QA Specialist

Authorized Signature