

September 17, 2020

TEST REPORT

IMR Report Number 202012317

MiniNail
1414 S. Concord Street
Seattle, WA 98108

SUMMARY

Three samples were received for chemical analysis.

Date Received
September 8, 2020

The samples **meet** the chemistry requirements of UNS-R50250 for a Titanium, Unalloyed (Grade 1).

Material
Titanium

Specification(s)
UNS-R50250

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CHEMISTRY

Element	12317-1CHM; Silver	12317-2CHM; Gold	12317-3CHM; Rainbow	UNS-R50250
C ¹	0.01	0.01	0.01	0.10 Maximum
Fe	0.08	0.03	0.06	0.20 Maximum
H ²	0.0009	0.0007	0.0007	0.015 Maximum
N ³	0.02	0.01	0.02	0.03 Maximum
O ²	0.07	0.09	0.08	0.18 Maximum
OEE ⁴	<0.1	<0.1	<0.1	---
OET ⁴	<0.4	<0.4	<0.4	---
Ti	Remainder	Remainder	Remainder	Remainder

Results in weight percent unless otherwise indicated

Method(s): CPP-014D (ICP-AES); ASTM E1941-10(2016) (Comb.); ASTM E1409-13 and ASTM E1447-09(2016) (IGF)

- ¹ Determined by combustion-infrared absorbance
- ² Determined by inert gas fusion-infrared absorbance
- ³ Determined by inert gas fusion-thermal conductivity
- ⁴ Other elements, each/total



Reviewed by

Alex N. Fish
Metallurgy & Chemistry Manager

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