



Customer : Sumitomo Corporation of Americas  
 Sales Order N<sup>o</sup> : US-SO002310  
 Customer PO N<sup>o</sup> : 4500462518

Customer Reference : C00700  
 Product Code : CT-174ARMIM-SUMI  
 Batch N<sup>o</sup> : US81707

Revision : 0  
 Quantity : 400 Kg  
 Published Date : 15/07/2021

**CHEMICAL ANALYSIS**

		Units	Min	Max	Result	Approved
O	Oxygen	weight %	0	0.07	0.08	Pass**
OET	Others Total	weight %	0	1.0	0.1	Pass
Si	Silicon	weight %	0	1.0	0.4	Pass
Mn	Manganese	weight %	0	1.0	0.3	Pass
Nb + Ta	Niobium + Tantalum	weight %	0.15	0.45	0.29	Pass
Nb	Niobium	weight %	Info Only	-	0.29	Pass
Cu	Copper	weight %	3	5	4	Pass
C	Carbon	weight %	0	0.07	0.02	Pass
Mo	Molybdenum	weight %	Info Only	-	0.10	Pass
Cr	Chromium	weight %	15.5	17.5	17.1	Pass
Ni	Nickel	weight %	3	5	4	Pass
Fe	Iron	weight %	Balance	-	Balance	Pass
P	Phosphorus	weight %	0	0.040	0.016	Pass
S	Sulphur	weight %	0	0.030	0.006	Pass
N	Nitrogen	weight %	0	0.20	0.03	Pass

**LASER SIZE DIFFRACTION - ASTM B822**

	Units	Min	Max	Result	Approved
-22 µm	volume %	90.0	100	90.3	Pass

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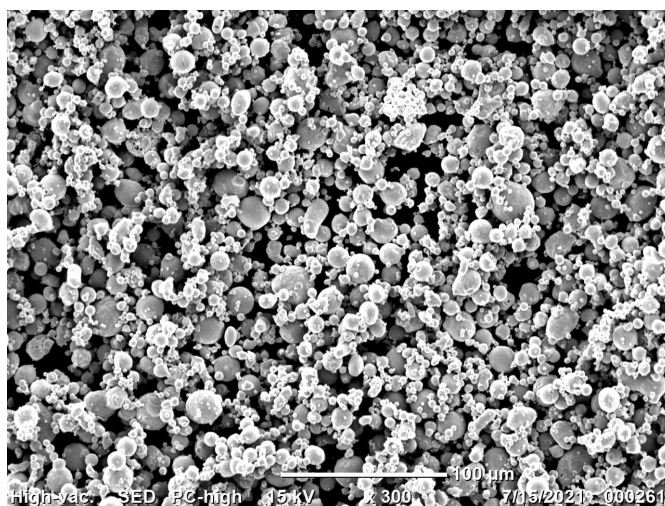
**HALL FLOW - ASTM B213**

	Units	Min	Max	Result	Approved
FR <sub>H</sub>	s/50g	Info Only	-	WNF	Pass

**APPARENT DENSITY - ASTM B212**

	Units	Min	Max	Result	Approved
Bulk Density	g/cm <sup>3</sup>	Info Only	-	WNF	Pass

**SEM IMAGING**



**Magnification : 300x**



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## NOTES

\*This document is validated by suppliers authorised inspection representative in accordance with EN 10204 type 3.1 Inspection Document

\*\*Oxygen content Passes per the Exception Letter dated April 27, 2021.

Approved By	Jonathan Latta	15/07/2021
Authorised By	Maria Sawford	15/07/2021