

**PRODUCT TEST CERTIFICATE**

Product Name	Spherical Nb Powder		Type	45-106µm	
<b>Chemical Composition</b>					
Element	Value (%)	Test Method	Element	Value (%)	Test Method
Nb	≥99.95	—	Ta	<0.035	ICP-AES
Cu	<0.002	ICP-AES	Al	<0.002	ICP-AES
W	<0.005	ICP-AES	Mn	<0.002	ICP-AES
Mo	<0.002	ICP-AES	Si	<0.002	ICP-AES
Fe	<0.005	ICP-AES	Ni	<0.002	ICP-AES
Ti	<0.001	ICP-AES	Cr	<0.002	ICP-AES
<b>Gas Impurities</b>					
Element	Value (%)		Element	Value (%)	
C	0.013		O	0.026	
H	0.0014		N	0.012	
<b>Density</b>			<b>Hall Flow Rate</b>		
Apparent Density (g/cm <sup>3</sup> )	Tap Density (g/cm <sup>3</sup> )		Value(s/50g)		
≥4.21	≥5.43		12.0		
					