

PRODUCT TEST CERTIFICATE

Product Name	Spherical Nb Powder	Size	15-45µm
Lot NO.	HM230805-Nb	Date	Aug 10, 2023
Chemical Composition			
Element	Value (%)	Element	Value (%)
Nb	Bal.	Ta	<0.035
Cu	<0.001	Al	0.002
W	<0.005	Mn	0.0015
Mo	0.0019	Si	0.002
Fe	<0.005	Ni	<0.002
Ti	<0.001	Other	<0.02
Gas Impurities			
Element	Value(%)	Element	Value(%)
C	0.0108	O	0.0460
H	0.0025	N	0.0097
Apparent Density (g/cm3)		Tap Density (g/cm3)	
≥4.5		≥5.6	
		Hall Flow Rate(s/50g)	
		≤16.5	
SEM			