

## MILL TEST CERTIFICATE

Certificate No: #20211215

Date: 2021/12/15

Purchasing Company		/		P.I./P.O.No	/		Batch Number	HJ20211769		
Commodity		Material	Condition	Size & Specification	Quantity	Products Standard		Temperature		
Titanium wire, Acid Washing, Annealed		Gr23	M	Dia1.6mm x L	120KGS	ASTM F136		18°C		
Titanium wire, Acid Washing, Annealed				Dia1.8mm x L	110KGS	ASTM F136				
Titanium wire, Acid Washing, Annealed				Dia2.3mm x L	140KGS	ASTM F136				
Chemical Composition (WT. %)										
TI Balance Ref. ASTM	Item	Fe	C	N	H	O	AL	V	Residuals	
	Size	0.25Max	0.08 Max	0.05 Max	0.012 Max	0.13 Max	5.5-6.50	3.5-4.5	Each (≤0.1)	Total (≤0.4)
	Dia1.6mm x L (coil)	0.06	0.030	0.027	<0.001	0.07	5.9	4.1	≤0.1	≤0.4
	Dia1.8mm x L (coil)									
Dia2.3mm x L (coil)										
Mechanical Strength										
Inspection Item	Tensile Strength	0.2 Yield Strength		Elongation		Reduction of area		/		/
	(Rm/Mpa)	Rp0.2/Mpa		A(%)		Z(%) min.		/		/
Requirement	860	795		10 Min		/		/		/
Dia1.6mm x L (coil)	1060	945		26		/		/		/
Dia1.8mm x L (coil)	1070	940		25		/		/		/
Dia2.3mm x L (coil)	1065	930		22		/		/		/
Other Testing										
Testing Item	Dimensional Inspection	Surface Measurement		Micro Structure		Surface Contamination Test		Ultrasonic Test		
Result	ACCEPTABLE	ACCEPTABLE		ACCEPTABLE		ACCEPTABLE		/		
Hereby certify this product conforms to all specifically listed technical requirements, and other requirements for these specifications. For the stated quantitative results were derived from testing and analysis and are accordance with the reference specification requirements										