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### MILL TEST CERTIFICATE

Certificate No: #20190624

Date: 2019-6-24

Purchasing Company		/		P. I. /P. O. No.	/		Batch Number	HJ20191026		
Commodity		Material	Condition	Size & Specification	Quantity	Products Standard		Temperature		
Titanium wire, Acid Washing, Annealed		Gr23	M	Dia1.8mm x L.	60KGS	ASTM F136		18°C		
Titanium wire, Acid Washing, Annealed				Dia2.3mm x L.	80KGS	ASTM F136				
Titanium wire, Acid Washing, Annealed				Dia2.8mm x L.	120KGS	ASTM F136				
Chemical Composition (WT. %)										
Tl 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 ( $\leq 0.1$ )	Total ( $\leq 0.4$ )
	Dia1.8mm x L (coil)	0.048	0.026	0.023	0.001	0.05	5.74	3.92	$\leq 0.1$	$\leq 0.4$
	Dia2.3mm x L (coil)									
Dia2.8mm 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	/		/	/		
Dia1.8mm x L (coil)	1075	930		22	/		/	/		
Dia2.3mm x L (coil)	1070	925		20	/		/	/		
Dia2.8mm x L (coil)	1090	933		21	/		/	/		
Other Testing										
Testing Item	Dimensional Inspection	Surface Measurement	Micro Structure	Surface Contamination	Ultrasonic Test					
Result	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	ACCEPTABLE	/					

Hereby certify this product conforms to all specifically listed technical requirements, and other requirements for these specifications. Furthermore, we certify that the above stated quantitative results were derived from testing and analysis and are accordance with the reference specification requirements

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