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MILL TEST CERTIFICATE

Certificate No: #20191221

Date: 2019-12-21

Purchasing Company		/		P. I. /P. O. No.		/		Batch Number	HJ20193024	
Commodity			Material	Condition	Size & Specification	Quantity	Products Standard		Temperature	
Titanium wire, Acid Washing, Annealed			Gr23	M	Dia2.3mm x L.	80KGS	ASTM F136		20°C	
Titanium wire, Acid Washing, Annealed					Dia2.8mm x L.	120KGS	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)
	Dia2.3mm x L (coil)	0.11	0.020	0.018	<0.001	0.06	6	4.1	≤0.1	≤0.4
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		/		/	/	
Dia2.3mm x L (coil)	950	890		18		38		/	/	
Dia2.8mm x L (coil)	935	880		16		35		/	/	
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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