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Certificate No: #20170519

Date: 2017/5/19

Purchasing Company		/		P.I./P.O.No.	/		Batch Number	HJ2017T1126		
Commodity			Material	Condition	Size & Specification	Quantity	Products Standard		Temperature	
Titanium Round Bar, Annealed Centerless Grinding			Gr23	M	Dia5mm x 2000-3000mm	300KGS	ASTM F 136		20°C	
Titanium Round Bar, Annealed Centerless Grinding					Dia8mm x 2000-3000mm	210KGS	ASTM F 136			
Chemical Composition (WT. %)										
TI Balance Ref. ASTM	Item Size	Fe	C	N	H	O	AL	V	Residuals	
		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)
	Dia5mm x 2000-3000mm	0.12	0.019	0.027	<0.001	0.07	5.85	4.2	≤0.1	≤0.4
Dia8mm x 2000-3000mm										
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		25		/	/
Dia5mm x 2000-3000mm	1015		910		19		39			
Dia8mm x 2000-3000mm	985		890		15		37		/	/
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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