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MILL TEST CERTIFICATE

Certificate No: #20190510

Date: 2019-5-10

Purchasing Company		/		P. I. /P. O. No.	/		Batch Number	HJ20190797	
Commodity			Material	Condition	Size & Specification	Quantity	Products Standard		Temperature
Titanium Round Bar, Annealed Centerless Grinding			Gr23	M	Dia3mm x 2000-3000mm	480KGS	ASTM F136		20°C
Titanium Round Bar, Annealed Centerless Grinding					Dia4mm x 2000-3000mm	560KGS	ASTM F136		

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)
	Dia3mm x 2000-3000mm	0.042	0.021	0.025	<0.001	0.09	5.83	3.96	≤ 0.1	≤ 0.4
	Dia4mm 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	/	/
Dia3mm x 2000-3000mm	1005	920	21	36		
Dia4mm x 2000-3000mm	1000	910	19	34	-/	/

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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