

## MILL TEST CERTIFICATE

Certificate No: #20160310

Date: 2016/3/10

Purchasing Company		/		P.I./P.O.No.		/		Batch Number		HJ2015R2141			
Commodity			Material	Condition	Size & Specification	Quantity	Products Standard		Temperature				
Titanium Round Bar, Annealed Centerless Grinding			Gr23	M	Dia5mm x 2000-3000mm	311KGS	ASTM F136		20℃				
Titanium Round Bar, Annealed Centerless Grinding					Dia6mm x 2000-3000mm	500KGS	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)		
	Dia5mm x 2000-3000mm	0.08	0.018	0.020	<0.001	0.09	6.09	4	≤0.1		≤0.4		
Dia6mm 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		978		910		32		49		/		/	
Dia6mm x 2000-3000mm		980		917		34		48		/		/	
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. Furthermore, we certify that the above stated quantitative results were derived from testing and analysis and are accordance with the reference specification requirements

