

TITANIUM ROUND BAR

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MILL TEST CERTIFICATE

Certificate No: #20181129

Date: 2018-11-29

Purchasing Company		/		P. I. /P. O. No.		/		Batch Number	HJ2018T1138		
Commodity			Material	Condition	Size & Specification	Quantity	Products Standard	Temperature			
Titanium Round Bar, Annealed Centerless Grinding			Gr23	M	Dia6mm x 2000-3000mm	380KGS	ASTM F136	20°C			
Titanium Round Bar, Annealed Centerless Grinding					Dia8mm x 2000-3000mm	420KGS	ASTM F136				
Chemical Composition (WT. %)											
TI Balance Ref. ASTM	Size	Item	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)
	Dia6mm x 2000-3000mm	0.17	0.020	0.024	<0.001	0.07	5.9	4.3	≤0.1	≤0.4	
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		/	/	
Dia6mm x 2000-3000mm	1000		890		17		35				
Dia8mm x 2000-3000mm	990		885		16		34		/	/	
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 requirements

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