


CERTIFICATES OF QUALITY

Acc. to EN10204 3.1+PED97/23/EC

NO: P33998-T-1

DATE: Jan.08,2016

Commodity : Titanium Bar Grade 2 & Grade 2H & Grade 3						Finish: Annealed				
Specification : Acc. to ASTM B348-13, ASME SB348-13, ASTM B381-13, ASME SB381-13, ASTM F-67										
Length will be in 6.5'-10'RL										
Size			Quantity		Net Weight		Heat No.		Lot No.	
.125" (+/-0.002")			14 bundles		462.97lbs		DT1405002407		DT1405002407	
Chemical Composition (wt.%)										
Requirement	Fe	C	N	H	O	Residuals		Residuals		Ti
	max	max	max	max	max	Each(max)		Total (max)		
	0.30	0.08	0.03	0.015	0.25	0.10		0.40		Balance
Result	Top	0.19	0.014	0.005	0.005	0.16		0.15		Balance
	Bottom	0.20	0.013	0.005	0.005	0.15		0.15		
Residual Element	Sn	Zr	Mo	Cr	Si	Ni	Cu	Al	Mn	Cl
Result	<0.05	<0.01	<0.01	<0.01	/	/	/	/	/	/
Tensile Test										
Requirement	Tensile Strength (MPa)min.		Yield Strength,0.2% Offset (MPa)min		Elongation (%)min.		Reduct. of area (%) min.			
	GR.2	345	275		20		30			
	GR.2H	400	275		20		30			
GR.3	450	380		18		30				
Result	578		444		37.5		45			
Other Test										
Dimensional Inspection		Visual Inspection		Ultrasonic Inspection				Vickers Hardness (HV)		
Acceptable		Acceptable		Acc.to AMS 2631D Class AA				Acceptable		
				Acceptable				188		
<p>We hereby certify that the materials described above has been tested/inspected and conform to complies with the terms as per requirements of Purchase Order No. P33998, Date Dec.04,2015 confirmation inspection and dimensional control without complaints.</p> <p>NOTE: 1、 Country of Origin for melt & manufacture: China ✓ 2、 Origin of melt & manufacture: FST 3、 Material free from mercury contamination. We declare that the finished products is checked for radioactive contamination when it leaves the production plant. 4、 We declare that all the above-mentioned contents are actual and non-fraudulent. 5、 Method of manufacture:Forged, hot rolled,annealed,straightened,machined.</p>										
						(Zhang Lina)				
MANAGER OF QUALITY DEPARTMENT SHAANXI LASTING TITANIUM INDUSTRY CO.,LTD.										