

忠世高新
ZS ADVANCED

MATERIAL CERTIFICATE

DIN500-49/31B
Acc. TO EN 10204-3.1

Dated/Vom/Date: 2018/09/07
We hereby certify that the material described above has been tested; the material complies with the terms of the order confirmation. Inspection and dimensional control meet the article of ASTM B338 without complaints.

Customer/Besteller/Clien: GRANDIS TITANIUM

TTANIUM SEAMLESS TUBE Specification: ASTM B338G.F.9

Size: OD25.4 X AW1.651 X R/L1828.8-3043mm

Lot No: 17D3-33

Quantity (pieces): 189 PCS

Net Weight (kg): 250.8Kgs

Condition: CWSR

Elements	Product Analyse (Composition %)									
	Al	V	Fe	C	N	H	O	TI	Residuals (each)	Residuals (total)
Spec Value	2.5-3.5	2.0-3.0	Max 0.30	Max 0.08	Max 0.03	Max 0.015	Max 0.25	Remainder	Max 0.10	Max 0.40
Actual Value	2.85	2.15	0.034	0.018	0.0061	0.0012	0.064	Remainder	Max 0.10	Max 0.40

Mechanical Properties

Sample No.	Tensile Strength [Mpa]		Yield Strength [Mpa]		Elongation (%)
	Spec. Value	Actual Value	Mila 860	Mila 725	
		946		798	Mila 10
Visual Inspections					
Acceptable	Tube Outside Dia		Tube Inside Dia		Tube Wall Thickness
Acceptable	Acceptable		Acceptable		Acceptable
Tube Straightness					
Acceptable	Tube Length		Tube Roundness		Hydrostatic Test
Acceptable	Acceptable		Acceptable		Acceptable

VICE-MANAGER OF QUALITY DEPARTMENT

