

MATERIAL CERTIFICATION

NO: T-20200850068

DATE: 02-21-2020

BAOTi's management system has been approved according to the requirement of AS9100, ISO9001, ISO14001 and OHSAS 18001.

PO. NO.: 9028

Contract NO.: E4119024

EN10204 3.1

Commodity: TITANIUM BAR		Finish: ANNEALED						
Specification: ASTM B348-13/ASME SB348-15; Gr.2								
Size[mm]		Quantity[pc]		Net Weight[kg]		Heat No.		Lot No.
Ø35(h11)×3000-3100		49		655		20192611		19081574
Chemical Composition (wt. %)								
Requirement	Ti	Fe	C	N	H	O	Each	Total
Remainder	≤0.30	≤0.08	≤0.03	≤0.015	≤0.25	<0.10	<0.40	<0.40
Result	Top	Remainder	0.02	0.02	<0.01	0.001	0.16	<0.40
Result	Bottom	Remainder	0.02	0.02	0.01	0.001	0.12	<0.40
Requirement	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation A4L (%)	Reduct. of Area (%)	HRB			
Standard Values	L	≥345	≥275	≥20	≥30	≤100		
Result	L1	472	334	35.0	63	84.5/85.5/85.5		
Result	L2	509	335	29.5	56	85.5/85.5/85.0		
Other Tests								
Dimensional Inspection		Visual Inspection		Macrostructure Test		UT Inspection (AMS2631E Class A1)		
ACCEPTABLE		ACCEPTABLE		ACCEPTABLE		ACCEPTABLE		
VAR/EB		Heat Treatment		/		/		
VAR(2)		620°C/1.5h,AC.		/		/		
I hereby certify this product conforms to the specifically listed technical requirements, and other requirements for these specifications. Furthermore, I certify the above stated qualitative results were derived from testing and analysis, and are in accordance with the referenced specification(s) requirements. No mercury contamination and radio-activity.								

Note:

- 1.Hydrogen ----- product analysis.
- 2.HRB according to NACE MR 0175/ISO15156-1
- 3.2014/68/EU/PED and NORSOK M650 & NORSOK M630 MDS T01 Rev 4.

