

TiFast S.r.l.
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MATERIAL: TITANIUM BARS
ALLOY: TITANIUM GRADE 7, Ti 6Al 4V ELI
SPECIFICATION: ASTM F148 B3, B3M, 9, ASTM F136 B3, B3M, 9, 13, IS 1002-3: 01
TIFAST REFERENCE: 1740 17.12.2019
YOUR REFERENCE: 20191105 dated 05.11.2019
TIFAST PRODUCTION N°: 2007063
HEAT NUMBER: CV54740
NET WEIGHT Kg: 617.2

CHARACTERISTICS OF THE SUPPLY (NOMINAL)

Diameter	Length	Surface Finish	Tolerance	Maximum Camber	Surface roughness
25,000 mm	800 - 3200 mm	Peeling, Polished	h9	1 mm/m	Ra<1,6 µm

HEAT CHEMICAL COMPOSITION										
STD limits	Al %	C %	Fe %	H %	N %	O %	V %	RES. MAX %	Ti %	
min	5,50	0,00	0,00	0,000	0,00	0,00	3,50	Each	Total	BALANCE
max	6,50	0,08	0,25	0,0120	0,03	0,13	4,50	0,1	0,4	BALANCE
CV54740 top	6,01	0,023	0,10	0,004	0,006	0,097	3,98	<0,1	<0,4	BALANCE
bottom	6,05	0,024	0,10	0,004	0,009	0,111	3,93	<0,1	<0,4	BALANCE

MECHANICAL / PHYSICAL PROPERTIES AT ROOM TEMPERATURE OF THE SUPPLIED PRODUCTS

IDENTIFICATION	REFERENCE STANDARDS	STRENGTH limits	Tensile Strength	Yield Str 0.2% offset	Reduction of Area	Elongation	Gage Length diameter (mm)	R.L.* Rupture Location
		min	860	795	25	10		
		max	N.A.	N.A.	N.A.	N.A.		
CV54740	ASTM E8/E8M-16A, ELONG. ON 4D	949	888	54,0	17,4	12,50	I	
CV54740	UNI EN ISO 6892-1:2016, ELON 5D	949	888	54,0	15,4	12,50	I	

OTHER CHARACTERISTIC AND INSPECTIONS

Heat Treatment: ANNEALED 705°C 1 H + AIR COOLING	Ultrasonic Test: 100% Passed AMS 2631E CL AA
B-Transus Temp: 965±5°C	Eddy Current Test: 100% Passed
Microstructure: A1 as per ETTC2 & ISO 20160	Visual inspection: 100% Inspected
	Surface Alpha-Case: Free
	Mercury contamination: Free
	Radioactive contamination: Free

Others
Material melted and manufactured by TiFast, Narni, Italy. Hot rolled, annealed and cold finished bars.

We hereby certify that the relevant material was produced, sampled, inspected and tested in accordance with TiFast Order Acknowledgement and referenced specifications, and conforms to the requirements. The present document is in compliance with EN 10204:2004 inspection certificate "Type 3:1". Certified Hydrogen analysis was performed on the supplied product. The present document can be reproduced only in full and upon authorization by TiFast. *R.L.: I=Rupture inside the two inner quarters of the gage length E=Rupture outside the two inner quarters of the gage length. TiFast is Nadcap accredited for: room temperature tensile testing, annealing and stress relieving.

Laboratory Manager
ING. A. PALAZZI

Technology Director
ING. M. COSTANZI

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