

Material Test Certificate according to EN 10204-2004 : 3.1

Customer :				Material :	ASTM F593 GROUP 7 AH (17-4PH)-23			TC No. :	S85/26-XX.
SWO No. :		Date :		Bar Shape :	Round Bar	Bar Size	20 mm	TC Date :	25.07.20XX.
PO No. :		Date :		RM TC No. :		Lot No. :	VOXX	INV. No./Date	-

Chemical Composition Results %

Elements :	C	Si	Mn	P	S	Cr	Ni	Cu	Nb	Ta	Nb + Ta	Al	B	Pb	Ca
Min. :	-	-	-	-	-	15.00	3.00	3.00	0.15	-	-	-	-	-	-
Max. :	0.070	1.00	1.00	0.040	0.030	17.50	5.00	3.00	0.45	-	-	-	-	-	-
Actual :	0.0300	0.535	0.752	0.0268	0.0098	15.84	4.20	3.02	0.175	-	-	-	-	-	-

Lab TC No.:	XXXX	Lab Name :	- XXXX	Result :	Satisfactory
--------------------	------	-------------------	--------	-----------------	--------------

Heat Treatment Records (Precipitation Hardening)

Heat Treatment Process	Hardening Temp. °C	Reheating Temp. °C	Solution Annealing Temp. °C
Temp. °C Min. :	-	62X°C	10XX°C
Temp. °C Recorded :	-	62X°C	10XX°C
Soaking Time :	-	4 hours	30 Min
Quenching Medium :	-	Air cooled	Air cooled

Mechanical Testing Results

Mechanical Properties	Tensile Strength (Mpa)	Yield Strength 0.2 % Offset (Mpa)	% Elongation (GL-50mm)	% Reduction Area	Hardness (HRC)	Proof Load (Kn)
Specified	Min.	930.792	723.95	16	-	28
	Max.	-	-	-	38	-
Actual Results:	1177.795	867.9133	17.46	-	29, 33, 34	-

Impact Test Results	Charpy V Notch Impact Test				AVG Value	Lateral Expansion			
	Specified Value (J)	-	-	-	-	Value 1	Value 2	Value 3	Avg. Value
	Achieved Value (J)	-	-	-	-	-	-	-	-

Lab TC No.:	023/26-27/XX	Lab Name :	AKF LXX	Result :	Satisfactory.
--------------------	--------------	-------------------	---------	-----------------	---------------

Item Details

Po Sr. No.	Item Code	Drawing No./Rev. No.	Item Description	Length	Quantity
01	-	-	Hex Head Bolt 3/4"-10UNC-2A – F593 GR.7 AH	125 mm	10.00 NOS

Remarks: -
01) Material is free from any defective condition.
02) 100% visual inspection carried out & found free from defects.
03) Chemical, Mechanical & Dimensional test carried out at room temperature (20°C).
04) Material falls at the required composition requirements hence satisfactory.
05) No weld repair performed.
06) Above mentioned items conform to with respect to test carried out in order to the Purchase order requirement.
07) All Dimensions are as per the Specification. (As per Draw)
08) Above mentioned items are in line to the requirement of TSC No. (If applicable)
09) Product conforms to the requirement as per the order.

We confirm that above mentioned Items was Manufactured, Sampled, Tested and Inspected in accordance with the subjected Customer's Purchase Order and as applicable Drawings, Material Specifications, Codes & Standards and the results of the items have been determined to meet the users' requirements.

For Ananka Fasteners Pvt. Ltd.

For Client / TPI