

Material Test Certificate according to EN 10204-2004 : 3.1

Customer :				Material :	ASTM A276 UNS N08367 (AL-6XN) ED-2025			TC No. :	S81/26-XX
SWO No. :		Date :		Bar Shape :	Round Bar	Bar Size	20 mm	TC Date :	11.06.20XX
PO No. :		Date :		RM TC No. :	-	Lot No. :	AKF-SXX	INV. No./Date	-

Chemical Composition Results %

Elements :	C	Mn	P	S	Si	Cr	Ni	Mo	N	Sn	Cu	Al	B	Pb	Ca
Min. :	-	-	-	-	-	20.000	23.500	6.00	0.18	-	-	-	-	-	-
Max. :	0.030	2.000	0.040	0.030	1.000	22.000	25.500	7.00	0.25	-	-	-	-	-	-
Actual :	0.021	1.350	0.0326	0.0170	0.342	21.17	24.09	6.72	0.204	-	-	-	-	-	-
Lab TC No.:	-				Lab Name :	-				Result :	Satisfactory				

Heat Treatment Records

Heat Treatment Process	Hardening Temp. °C	Tempering Temp. °C	Solution Annealing Temp. °C
Temp. °C Min. :	-	-	11XX°C
Temp. °C Recorded :	-	-	11XX°C
Soaking Time :	-	-	1 Hour
Quenching Medium :	-	-	Water quenched

Mechanical Testing Results

Mechanical Properties	Tensile Strength (Mpa)	Yield Strength 0.2 % Offset (Mpa)	% Elongation (GL-50mm)	% Reduction Area	Hardness (HBW)	Proof Load (Kn)
Specified	Min.	655	310	30	50	-
	Max.	-	-	-	-	-
Actual Results:	802.32	476.16	47.29	67.08	172, 173, 169	-

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

Lab TC No.:	S81/26-27/XX	Lab Name :	AKF LXX	Result :	Satisfactory.				
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Item Details

Po Sr. No.	Item Code	Drawing No./Rev. No.	Item Description	Length	Quantity
1	-	-	Stud Bolts 3/4" – 10 UNC, UNS N08367 (AL-6XN)	110 mm	10.00 NOS

Remarks: -
01) Material is free from defects.
02) 100% visual inspection carried out by trained staff.
03) Chemical, Mechanical & Surface analysis carried out at room temperature 20°C.
04) Material fully complies with the requirements for the specified grade.
05) No visible defects.
06) Above mentioned test results are subject to test carried out in order to the Purchase order requirement.
07) All dimensions are as per EN 10204-2004, 3.1.
08) Above mentioned terms are in line to the requirement of TSC No. 22 applicable.

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