

Material Test Certificate according to EN 10204-2004 : 3.1

Customer :	-			Material :	ASTM A193 GR. B8ML4CuN CL.1		TC No. :	S83/26-XX	
SWO No. :	-	Date :	-	Bar Shape :	Round	Bar Size	24.0 mm	TC Date :	18.05.20XX
PO No. :	-	Date :	-	RM TC No. :	-	Lot No. :	AKF-XX	INV. No./Date	-

Chemical Composition Results %

Elements :	C	Mn	P	S	Si	Cr	Ni	Mo	N	Sn	Cu	Al	B	Pb	Ca
Min. :	-	-	-	-	-	17.00	15.00	3.00	-	-	4.00	-	-	-	-
Max. :	0.30	2.00	0.040	0.010	1.00	19.00	16.50	4.00	0.045	-	5.00	-	-	-	-
Actual :	0.225	0.50	0.032	0.002	0.47	18.07	16.10	3.58	0.01	-	4.23	-	-	-	-
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. :	-	-	-
Temp. °C Recorded :	-	-	-
Soaking Time :	-	-	-
Quenching Medium :	-	-	-
			Carbide Solution Treated

Mechanical Testing Results

Mechanical Properties		Tensile Strength (Mpa)	Yeild Strength 0.2 % Offset (Mpa)		% Elongation (GL-50mm)	%Reduction Area	Hardness (HRB)		Proof Load (Kn)		
Specified	Min.	480	175		35	50	-		-		
	Max.	-	-		-	-	90		-		
Actual Results:		578.84	261.39		47.09	57.25	87, 83, 86		-		
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.:	-		Lab Name :		-		Result :		Satisfactory		

Item Details

Po Sr. No.	Item Code	Drawing No./Rev. No.	Item Description	Length	Quantity
1	-	-	Stud Bolt M24-3P, ASTM A193 GR. B8ML4CuN CL.1	90 mm	15.00 NOS

Remarks: -
01) Material is free from defects.
02) 100% tested and found satisfactory.
03) Chemical, Mechanical & Physical properties are within the specified limits.
04) Material is free from any kind of contamination.
05) The test results are within the specified limits.
06) All dimensions are within the specified limits.
07) All test results are within the specified limits.
08) All test results are within the specified limits.

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

Material Test Certificate according to EN 10204-2004 : 3.1

Customer :	-			Material :	ASTM A193 GR. B8ML4CuNA CL.1A ED-2025			TC No. :	S84/26-XX
SWO No. :	-	Date :	-	Bar Shape :	Round	Bar Size	18.0 mm	TC Date :	13.05.20XX
PO No. :	-	Date :	-	RM TC No. :	-	Lot No. :	AKF-XX	INV. No./Date	-

Chemical Composition Results %

Elements :	C	Mn	P	S	Si	Cr	Ni	Mo	N	Sn	Cu	Al	B	Pb	Ca
Min. :	-	-	-	-	-	17.00	15.00	3.00	-	-	4.00	-	-	-	-
Max. :	0.30	2.00	0.040	0.010	1.00	19.00	16.50	4.00	0.045	-	5.00	-	-	-	-
Actual :	0.167	1.38	0.033	0.005	0.65	17.49	15.46	3.56	0.04	-	4.76	-	-	-	-
Lab TC No.:	XXXX	Lab Name :	XXXX	Result :	Satisfactory										

Heat Treatment Records

Heat Treatment Process	Hardening Temp. °C	Tempering Temp. °C	Solution Annealing Temp.°C
Temp. °C Min. :	-	-	-
Temp. °C Recorded :	-	-	-
Soaking Time :	-	-	-
Quenching Medium :	-	-	-
Carbide Solution Treated			

Mechanical Testing Results

Mechanical Properties	Tensile Strength (Mpa)	Yield Strength 0.2 % Offset (Mpa)	% Elongation (GL-50mm)	% Reduction Area	Hardness (HRB)	Proof Load (Kn)
Specified	Min.	480	175	35	50	-
	Max.	-	-	-	90	-
Actual Results:	601.27	293.67	48.21	59.72	84, 86, 87 HRB	-
Impact Test Results						
Charpy V Notch Impact Test			AVG Value (J)	Lateral Expansion		
Specified Value (J)			-	Value 1	Value 2	Value 3
Achieved Value (J)			-	-	-	-
Lab TC No.:	-	Lab Name :	-	Result :	Satisfactory	

Item Details

Po Sr. No.	Item Code	Drawing No./Rev. No.	Item Description	Length	Quantity
1	-	-	Stud Bolt M18-2.5P, ASTM A193 GR. B8ML4CuNA CL.1A	90 mm	20.00 NOS

Remarks: -
01) Material is free from surface defects.
02) 100% visual inspection carried out & found free from defects.
03) Chemical, Mechanical & Dimensional inspection carried out as per specification.
04) Material fully complies with the requirements & is satisfactory.
05) No need for further testing.
06) Above mentioned results are as per the requirements of the Purchase order.
07) All dimensions are as per the specification.
08) Above mentioned results are as per the requirements of the Purchase order.

We confirm that above mentioned items were 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