

Material Test Certificate according to EN 10204-2004 : 3.1

Customer :	-			Material :	ASTM A193 GR. B8MLN CL.1 ED-2025			TC No. :	S78/26-XX
SWO No. :	-	Date :	-	Bar Shape :	Round	Bar Size	16.0 mm	TC Date :	06.04.20XX
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. :	-	-	-	-	-	16.00	10.00	2.00	0.10	-	-	-	-	-	-
Max. :	0.030	2.00	0.045	0.030	1.00	18.00	13.00	3.00	0.16	-	-	-	-	-	-
Actual :	0.016	0.71	0.021	0.023	0.64	17.11	10.50	2.65	0.12	-	-	-	-	-	-

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. 515	205	30	50	-	-
	Max. -	-	-	-	96	-
Actual Results:	643.21	324.12	43.36	52.14	83, 86, 88	-

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	-	-	Hex Bolt M16-2P, ASTM A193 GR. B8MLN CL.1	85 mm	25.00 NOS

Remarks: -
01) Material is free from surface defects.
02) 100% visual inspection carried out & found free from defects.
03) Chemical, Mechanical & Hardness test carried out as per requirement.
04) Material fully complies with the requirements. Hence satisfactory.
05) No work order raised.
06) Above mentioned test results in full report is sent in order to the Purchase order requirement.
07) All dimensions are as per specification.
08) Above mentioned items are as per the requirement of IS, BS, AS, etc.

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. B8MLNA CL.1A ED-25			TC No. :	S79/26-XX
SWO No. :	-	Date :	-	Bar Shape :	Round	Bar Size	20.0 mm	TC Date :	29.05.20XX
PO No. :	-	Date :	-	RM No. :	TC -	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. :	-	-	-	-	-	16.00	10.00	2.00	0.10	-	-	-	-	-	-
Max. :	0.030	2.00	0.045	0.030	1.00	18.00	13.00	3.00	0.16	-	-	-	-	-	-
Actual :	0.016	1.48	0.025	0.025	0.51	17.43	11.66	2.69	0.14	-	-	-	-	-	-
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)	Yeild Strength 0.2 % Offset (Mpa)		% Elongation (GL-50mm)	%Reduction Area	Hardness (HRB)		Proof Load (Kn)	
Specified	Min.	515	205		30	50	-		-	
	Max.	-	-		-	-	90		-	
Actual Results:		614.07	293.08		51.70	67.17	84, 85, 87		-	
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 M20-2.5P, ASTM A193 GR. B8MLNA CL.1A	120 mm	20.00 NOS

Remarks: -
01) Material is free from visible defects.
02) 100% visual inspection carried out & found free from defects.
03) Chemical, Mechanical & Hardness test carried out as per requirements.
04) Material fully complies with the requirements. Hence satisfactory.
05) No work order raised.
06) Above mentioned test results are subject to test carried out in order to the Purchase order requirement.
07) All dimensions are as per specification.
08) Above mentioned items are as per the requirement of TDS, No. 12 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