

Material Test Certificate according to EN 10204-2004 : 3.1

Customer :	-	Material :	ASTM A193 GR. B8MN CL.1B ED-25			TC No. :	S70/26-XX		
SWO No. :	-	Date :	-	Bar Shape :	Round Bar	Bar Size	28.0 mm	TC Date :	17.05.20XX
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. :	-	-	-	-	-	16.00	10.00	2.00	0.10	-	-	-	-	-	-
Max. :	0.08	2.00	0.045	0.030	1.00	18.00	13.00	3.00	0.16	-	-	-	-	-	-
Actual :	0.035	1.432	0.0371	0.009	0.431	16.76	10.23	2.12	0.134	-	-	-	-	-	-
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.	550	240	30	40	-
	Max.	-	-	-	96	-
Actual Results:	654.12	376.53	49.62	53.09	86.3, 87.1, 88.4	-

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.:	XXXX	Lab Name :	XXXX	Result :	Satisfactory.
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Item Details

Po Sr. No.	Item Code	Drawing No./Rev. No.	Item Description	Length	Quantity
1	-	-	Studs Bolt 1 1/4" - 7UNC, A193 GR. B8MN CL.1B	80 mm	10.00 NOS

Remarks: -
01) Material is free from objectionable contamination.
02) 100% visual inspection carried out & found free from defects.
03) Chemical, Mechanical & Surface test carried out at room temperature 20°C.
04) Material fully up to the standard compliance requirements hence satisfactory.
05) No work order pending.
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.
08) Above mentioned items are in line to the requirement of TIR No. 02 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

Material Test Certificate according to EN 10204-2004 : 3.1

Customer :	-	Material :	ASTM A193 GR. B8MN CL.2 ED-2025			TC No. :	S71/26-XX		
SWO No. :	-	Date :	-	Bar Shape :	Round Bar	Bar Size	12.0 mm	TC Date :	20.04.20XX
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. :	0.08	2.00	0.045	0.030	1.00	18.00	13.00	3.00	0.16	-	-	-	-	-	-
Actual :	0.029	1.462	0.0346	0.013	0.361	16.76	10.15	2.18	0.126	-	-	-	-	-	-
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 & Strain Hardened

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. 760	655	15	45	-	-
	Max. -	-	-	-	35	-
Actual Results:	856.42	742.58	23.09	53.64	26.8, 28.2, 26.4	-

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.:	XXXX	Lab Name :	XXXX	Result :	Satisfactory.
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Item Details

Po Sr. No.	Item Code	Drawing No./Rev. No.	Item Description	Length	Quantity
1	-	-	Hex Bolt M12-1.75P, A193 GR. B8MN CL.2	90 mm	20.00 NOS

Remarks: -
01) Material is free from any visible contamination.
02) 100% visual inspection carried out & found free from defects.
03) Chemical, Mechanical & hardness test carried out at room temperature 20°C.
04) Material fully fit the standard compliance requirements hence satisfactory.
05) No visible surface defects.
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.
08) Above mentioned items are in line to the requirement of TIR No. (if 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

Material Test Certificate according to EN 10204-2004 : 3.1

Customer :	-	Material :	ASTM A193 GR. B8MNA CL.1A ED-25			TC No. :	S72/26-XX		
SWO No. :	-	Date :	-	Bar Shape :	Round Bar	Bar Size	16 mm	TC Date :	12.04.20XX
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. :	0.08	2.00	0.045	0.030	1.00	18.00	13.00	3.00	0.16	-	-	-	-	-	-
Actual :	0.035	1.518	0.0326	0.009	0.382	16.33	10.19	2.13	0.118	-	-	-	-	-	-
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.	-	-	-	90	-
Actual Results:	668.31	324.09	44.36	62.49	86.3, 87.2, 86.3	-

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.:	XXXX	Lab Name :	XXXX	Result :	Satisfactory.
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Item Details

Po Sr. No.	Item Code	Drawing No./Rev. No.	Item Description	Length	Quantity
1	-	-	Studs Bolt M16 – 2P, A193 GR. B8MNA CL.1A	80 mm	25.00 NOS

Remarks: -
01) Material is free from objectionable contamination.
02) 100% visual inspection carried out & found free from defects.
03) Chemical, Mechanical & Dimensional test carried out at room temperature 20°C.
04) Material satisfies all the standard compliance requirements hence satisfactory.
05) No work order pending.
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.
08) Above mentioned items are in line to the requirement of TIR No. 28 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