

Material Test Certificate according to EN 10204-2004 : 3.1

Customer :	-	Material :	ASTM A193 GR. B8C CL.1 ED-2025			TC No. :	S61/26-XX		
SWO No. :	-	Date :	-	Bar Shape :	Round Bar	Bar Size	16.0 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	Nb	Sn	Cu	Al	B	Pb	Ca
Min. :	-	-	-	-	-	17.00	9.00	-	10 X C	-	-	-	-	-	-
Max. :	0.08	2.00	0.045	0.030	1.00	19.00	12.00	-	1.10	-	-	-	-	-	-
Actual :	0.032	1.442	0.0316	0.007	0.342	17.65	9.37	-	0.43	-	-	-	-	-	-
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:	732.47	396.18	44.26	61.32	91.4, 89.5, 90.2	-

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	-	-	Stud Bolt M16-2P, A193 GR. B8C CL.1	75 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 & Dimensional 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. B8C CL.2 ED-2025			TC No. :	S62/26-XX		
SWO No. :	-	Date :	-	Bar Shape :	Round Bar	Bar Size	12.0 mm	TC Date :	26.04.20XX
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	Nb	Sn	Cu	Al	B	Pb	Ca
Min. :	-	-	-	-	-	17.00	9.00	-	10 X C	-	-	-	-	-	-
Max. :	0.08	2.00	0.045	0.030	1.00	19.00	12.00	-	1.10	-	-	-	-	-	-
Actual :	0.029	1.541	0.0346	0.009	0.361	17.73	9.23	-	0.46	-	-	-	-	-	-
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.	860	690	12	35	-
	Max.	-	-	-	35	-
Actual Results:	934.73	764.96	18.25	43.12	26.6, 28.2, 27.4	-

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	-	-	Stud Bolt M12-1.75P, A193 GR. B8C CL.2	100 mm	25.00 NOS

Remarks: -
01) Material is free from any visible contamination.
02) 100% visual inspection carried out & found free from defects.
03) Chemical, Mechanical & Dimensional tests carried out at room temperature 20°C.
04) Material fully meets the standard compliance requirements hence satisfactory.
05) No visible signs of corrosion.
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 TDS 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. B8CA CL.1A ED-2025			TC No. :	S63/26-XX		
SWO No. :	-	Date :	-	Bar Shape :	Round Bar	Bar Size	24.0 mm	TC Date :	23.05.20XX
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	Nb	Sn	Cu	Al	B	Pb	Ca
Min. :	-	-	-	-	-	17.00	9.00	-	10 X C	-	-	-	-	-	-
Max. :	0.08	2.00	0.045	0.030	1.00	19.00	12.00	-	1.10	-	-	-	-	-	-
Actual :	0.030	1.524	0.0296	0.012	0.352	17.54	9.29	-	0.44	-	-	-	-	-	-
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:	702.31	343.37	49.21	64.52	87.2, 88.1, 87.4	-

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 M24-3P, A193 GR. B8Ca CL.1a	60 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 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