

Material Test Certificate according to EN 10204-2004 : 3.1

Customer :	-			Material :	ASTM A193 GR. B8R CL.1C & 1D - 2025			TC No. :	S95/26-XX
SWO No. :	-	Date :	-	Bar Shape :	Round Bar	Bar Size	16.0 mm	TC Date :	03.04.20XX
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	Nb	V	Al	B	Pb	Ca
Min. :	-	4.000	-	-	-	20.50	11.50	1.50	0.200	0.10	0.10	-	-	-	-
Max. :	0.060	6.000	0.0450	0.030	1.000	23.50	13.50	3.00	0.400	0.30	0.30	-	-	-	-
Actual :	0.048	5.542	0.0396	0.019	0.831	21.04	12.91	2.19	0.224	0.132	0.121	-	-	-	-
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 (HRC)		Proof Load (Kn)	
Specified	Min.	690	380		35	55	-		-	
	Max.	-	-		-	-	28		-	
Actual Results:		769.85	431.98		42.59	65.46	23.2, 24.7, 23.1		-	
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 M-16-2P, ASTM A193 GR. B8R CL.1C & 1D	100mm	16.00 NOS

Remarks: -
01)
02)
03)
04)
05)
06)
07)
08)

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. B8RA CL.1C - 2025			TC No. :	S96/26-XX
SWO No. :	-	Date :	-	Bar Shape :	Round Bar	Bar Size :	20.0 mm	TC Date :	03.05.20XX
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	Nb	V	Al	B	Pb	Ca
Min. :	-	4.000	-	-	-	20.50	11.50	1.50	0.200	0.10	0.10	-	-	-	-
Max. :	0.060	6.000	0.0450	0.030	1.000	23.50	13.50	3.00	0.400	0.30	0.30	-	-	-	-
Actual :	0.037	5.197	0.0204	0.022	0.768	22.91	11.86	2.35	0.244	0.132	0.121	-	-	-	-
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 (HRC)	Proof Load (Kn)
Specified	Min. 690	380	35	55	-	-
	Max. -	-	-	-	28	-
Actual Results:	745.58	436.63	43.49	79.23	21.0, 22.4, 21.3	-

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	-	-	Stud Bolt M20-2.5P, ASTM A193 GR. B8RA CL.1C	90mm	14.00 NOS

Remarks: -
01)
02)
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04)
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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