

Material Test Certificate according to EN 10204-2004 : 3.1

Customer :		Material :	ISO 898-1 GR.8.8 ED-2013	TC No. :	S0X/26-27.
SWO No. :		Date :		Bar Shape :	Round Bar
PO No. :		Date :		Bar Size :	12 mm
		RM TC No. :		Lot No. :	L042
				INV. No./Date :	

Chemical Composition Results %

Elements :	C	Mn	P	S	B	Cr	Ni	Mo	V	Sn	Cu	Al	B	Pb	Ca
Min. :	0.25	0.60	-	-	-	-	-	-	-	-	-	-	-	-	-
Max. :	0.55	-	0.025	0.025	0.003	-	-	-	-	-	-	-	-	-	-
Actual :	0.342	0.601	0.0211	0.0133	0.001	-	-	-	-	-	-	-	-	-	-

Lab TC No.:	2600XXXX	Lab Name :	M/s. XXXX LAB LLP	Result :	Satisfactory
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Heat Treatment Records

Heat Treatment Process	Hardening Temp. °C	Tempering Temp. °C	Solution Annealing Temp. °C
Temp. °C Min. :	8XX°C	4XX°C	-
Temp. °C Recorded :	8XX°C	6XX°C	-
Soaking Time :	X Hours	X Hours	-
Quenching Medium :	Oil Quenched	Aircool	-

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. 800	640	12	52	23	-
	Max. -	-	-	-	34	-
Actual Results:	867.76	687.76	18.20	59.11	26.3, 28.3, 26.4	-
Impact Test Results	Charpy V Notch Impact Test			AVG Value	Lateral Expansion	
	Specified Value (J)	27	27	27	Value 1	Value 2
	Achieved Value (J)	56	48	60	54.67	-

Lab TC No.:	-	Lab Name :	FASTENERS MANUFACTURING	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, ISO 898-1	110mm	50.00 NOS

Remarks: -

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 :	ISO 898-2 .CL 8 ED-2022		TC No. :	50X/2X-2X	
SWO No. :		Date :		Bar Shape : Round Bar	Bar Size : 30 mm	TC Date :	0X.0X.20XX
PO No. :		Date :		RM TC No. :	Lot No. : L0XX	INV. No./Date :	

Chemical Composition Results %

Elements :	C	Mn	P	S	B	Cr	Ni	Mo	V	Sn	Cu	Al	B	Pb	Ca
Min. :	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Max. :	0.58	-	0.060	0.150	-	-	-	-	-	-	-	-	-	-	-
Actual :	0.433	0.693	0.0274	0.0315	-	-	-	-	-	-	-	-	-	-	-

Lab TC No.:	2500XXXX	Lab Name :	M/s. XXX LAB LLP	Result :	Satisfactory
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Heat Treatment Records

Heat Treatment Process	Hardening Temp. °C	Tempering Temp. °C	Solution Annealing Temp. °C
Temp. °C Min. :	8XX°C	5XX°C	-
Temp. °C Recorded :	8XX°C	5XX°C	-
Soaking Time :	X Hours	X Hours	-
Quenching Medium :	Oil Quenched	Aircool	-

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.	-	-	-	-	-	125.6	
	Max.	-	-	-	-	36	-	
Actual Results:		-	-	-	-	29.2, 30.5, 29.2	126.3	
Impact Test Results	Charpy V Notch Impact Test			AVG Value	Lateral Expansion			
	Specified Value (J)		-	-	Value 1	Value 2	Value 3	Avg. Value
	Achieved Value (J)		-	-	-	-	-	-

Lab TC No.:	-	Lab Name :	FASTENERS MANUFACTURER	Result :	Satisfactory.
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Item Details

Po Sr.No.	Item Code	Drawing No./Rev. No.	Item Description	Length	Quantity
1	-	-	Hexagon Nut M16-2F	-	50.00 NOS

Remarks : -

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 :	ISO 898-1 GR.10.9 ED-2013	TC No. :	50X/2X-2X
SWO No. :		Date :		Bar Shape :	Round Bar
PO No. :		Date :		Bar Size :	12 mm
		RM TC No. :		Lot No. :	AKHB/XXX
				INV. No./Date :	

Chemical Composition Results %

Elements :	C	Mn	P	S	B	Cr	Ni	Mo	V	Sn	Cu	Al	B	Pb	Ca
Min. :	0.25	0.600	-	-	-	-	-	-	-	-	-	-	-	-	-
Max. :	0.55	-	0.025	0.025	0.003	-	-	-	-	-	-	-	-	-	-
Actual :	0.404	0.821	0.013	0.011	0.002	-	-	-	-	-	-	-	-	-	-

Lab TC No.:	2401XXXX	Lab Name :	M/s. XXX LAB LLP	Result :	Satisfactory
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Heat Treatment Records

Heat Treatment Process	Hardening Temp. °C	Tempering Temp. °C	Solution Annealing Temp. °C
Temp. °C Min. :	8XX°C	4XX°C	-
Temp. °C Recorded :	8XX°C	5XX°C	-
Soaking Time :	X Hours	X Hours	-
Quenching Medium :	Oil Quenched	Aircool	-

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. 1040	940	9	48	32	-
	Max. -	-	-	-	39	-
Actual Results:	1108.250	1026.660	19.49	61.77	32.1, 30.5, 32.7	-

Impact Test Results	Charpy V Notch Impact Test	AVG Value	Lateral Expansion
	Specified Value (J)	27	Value 1 Value 2 Value 3 Avg. Value
	Achieved Value (J)	43	56 53 50.66 - - - -

Lab TC No.:	-	Lab Name :	FASTENERS MANUFACTURING	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, ISO 898-1	75mm	50.00 NOS

Remarks: -

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 :	ISO 898-2 .CL 10 ED-2022	TC No. :	50X/2X-2X
SWO No. :		Date :		Bar Shape :	Round Bar
PO No. :		Date :		Bar Size :	20 mm
		RM TC No. :		Lot No. :	ADXXXX
				INV. No./Date :	

Chemical Composition Results %

Elements :	C	Mn	P	S	B	Cr	Ni	Mo	V	Sn	Cu	Al	B	Pb	Ca
Min. :	-	0.30	-	-	-	-	-	-	-	-	-	-	-	-	-
Max. :	0.580	-	0.048	0.058	-	-	-	-	-	-	-	-	-	-	-
Actual :	0.403	0.853	0.021	0.024	-	-	-	-	-	-	-	-	-	-	-

Lab TC No.:	2500XXXX	Lab Name :	M/s. XXX LAB LLP	Result :	Satisfactory
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Heat Treatment Records

Heat Treatment Process	Hardening Temp. °C	Tempering Temp. °C	Solution Annealing Temp. °C
Temp. °C Min. :	8XX°C	3XX°C	-
Temp. °C Recorded :	8XX°C	4XX°C	-
Soaking Time :	X Hours	X Hours	-
Quenching Medium :	Oil Quenched	Aircool	-

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.	-	-	-	26	259.70
	Max.	-	-	-	36	-
Actual Results:	-	-	-	-	28.5, 30.2, 31.0	260.50
Impact Test Results	Charpy V Notch Impact Test			AVG Value	Lateral Expansion	
	Specified Value (J)	-	-	-	Value 1	Value 2
	Achieved Value (J)	-	-	-	-	-

Lab TC No.:	-	Lab Name :	FASTENERS MANUFACTURING	Result :	Satisfactory.
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Item Details

Po Sr.No.	Item Code	Drawing No./Rev. No.	Item Description	Length	Quantity
1	-	-	Hexagon Nut M20-2.5P	-	50.00 NOS

Remarks : -

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 :	EN10083-2 GR. C45 (1.0503)	TC No. :	50X/2X-2X
SWO No. :		Date :		Shape :	Plate
PO No. :		Date :		Size :	3 mm
		RM TC No. :		Lot No. :	FGLXXXX
				INV. No./Date :	

Chemical Composition Results %

Elements :	C	Mn	P	S	B	Cr	Ni	Mo	Cr+Mo+Ni	Cu	Al	B	Pb	Ca
Min. :	0.42	0.50	-	-	-	-	-	-	-	-	-	-	-	-
Max. :	0.50	0.80	0.045	0.045	-	0.40	0.40	0.10	0.63	-	-	-	-	-
Actual :	0.467	0.722	0.019	0.027	-	0.174	0.029	0.006	0.209	-	-	-	-	-
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. :	8XX°C	5XX°C	-
Temp. °C Recorded :	8XX°C	6XX°C	-
Soaking Time :	X Hours	X Hours	-
Quenching Medium :	Oil Quenched	Aircool	-

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.	-	-	-	-	-
	Max.	-	-	-	32	-
Actual Results:	-	-	-	-	29.2, 30.5, 29.2	-
Impact Test Results	Charpy V Notch Impact Test			AVG Value	Lateral Expansion	
	Specified Value (J)	-	-	-	Value 1	Value 2
	Achieved Value (J)	-	-	-	-	-
Lab TC No.:	-	Lab Name :	FASTENERS MANUFACTURING			
				Result :	Satisfactory.	

Item Details

Po Sr.No.	Item Code	Drawing No./Rev. No.	Item Description	Length	Quantity
1	-	-	Washer M16	-	50.00 NOS

Remarks : -

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For Ananka Fasteners Pvt. Ltd.

For Client / TPI