

Material Test Certificate according to EN 10204-2004 : 3.1

Customer :				Material :	ISO 898-1 GR.8.8 ED-2013			TC No. :	S01/26-XX.
SWO No. :		Date :		Bar Shape :	Round Bar	Bar Size	12 mm	TC Date :	02.04.20XX.
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	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.:	260050XX	Lab Name :	M/s. BMT LAB LXX	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. :	85X°C	42X°C	-
Temp. °C Recorded :	88X°C	60X°C	-
Soaking Time :	2 Hours	3 Hours	-
Quenching Medium :	Oil Quenched	Aircool	-

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.	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	Value 3	Avg. Value
	Achieved Value (J)	56	48	60	54.67	-	-	-	-

Lab TC No.:	-	Lab Name :	-	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	110 mm	50.00 NOS

Remarks :-
01) Material is free from visible surface defects.
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 weld repair noticed.
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 (EN 898-1).
08) Above mentioned items are in line to the requirement of TSC No. (If applicable).
09) Product surface finish is supplying as per drawing.

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