

Material Test Certificate according to EN 10204-2004 : 3.1

Customer :	-	Material :	ISO 898-1 GR.10.9 ED-2013	TC No. :	S03/26-XX.
SWO No. :	-	Date :	-	Bar Shape :	Round Bar
PO No. :	-	Date :	-	Bar Size :	12 mm
		RM TC No. :	-	Lot No. :	AKHB/4XX
				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.:	240176XX	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	54X°C	-
Soaking Time :	2 Hours	3 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	27
	Achieved Value (J)	43	56

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	75 mm	50.00 NOS

Remarks: -
01) Material is free from 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 supplied 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