

Material Test Certificate according to EN 10204-2004 : 3.1

Customer :	-			Material :	ASTM A193 GR. B8CLNCuB CL.1			TC No. :	S82/26-XX
SWO No. :	-	Date :	-	Bar Shape :	Round	Bar Size	12.0 mm	TC Date :	24.05.20XX
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	Sn	Cu	Al	B	Pb	Ca
Min. :	0.005	-	-	-	-	17.00	10.00	2.50	0.06	-	-	-	-	-	-
Max. :	0.020	2.00	0.035	0.010	0.60	19.00	13.00	3.50	0.12	-	-	-	-	-	-
Actual :	0.010	0.94	0.025	0.005	0.39	18.65	10.99	3.30	0.08	-	-	-	-	-	-
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 (HRB)		Proof Load (Kn)		
Specified	Min.	515	205		30	50	-		-		
	Max.	-	-		-	-	96		-		
Actual Results:		623.14	317.19		43.59	62.35	87, 89, 90		-		
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.:	-		Lab Name :		-		Result :		Satisfactory		

Item Details

Po Sr. No.	Item Code	Drawing No./Rev. No.	Item Description	Length	Quantity
1	-	-	Stud Bolt M-12-1.75P, ASTM A193 GR. B8CLNCuB CL.1	80 mm	10.00 NOS

Remarks: -
01) Material is free from defects.
02) 100% visual inspection carried out and found satisfactory.
03) Chemical Analysis carried out and found satisfactory.
04) Mechanical Properties tested and found satisfactory.
05) Heat treatment carried out as per requirements found satisfactory.
06) Impact testing carried out as per requirements found satisfactory.
07) All dimensions are within tolerance.
08) Above mentioned items are as per requirement of TDS 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