




NO 10 , SHIV KUTIR BLDG KHETWADI 8 TH LANE, MUMBAI - 400 004. INDIA Tel. : +91 - 9819659324 Email : sales@rishabhsteelindustries.com				MATERIAL TEST CERTIFICATE WORKS CERTIFICATE FASTENERS ORDER NO YTR/PUR/BNW/1001-25 DT : 19.03.25												
DATA/DATE		CERTIFICATE NO		QATAR												
03-05-2025		86571294														
STAINLESS STEEL FASTENERS				EN 10204 TYPE 3.1												
HEAT NO	DIMESNION	QTY	ITEM DESCRIPTION								STANDARD					
H24	ASTM STANDARD	Nos 1896	BOLT: M 24 X 160 LG BOLT: M 24 X 200 LG NUT: M 24 WASHER: 62 OD x 26 ID X 5 THK								ASTM A320/A320M-15a					
H24	ASTM STANDARD	8									ASTM A320/A320M-15a					
B20	ASTM STANDARD	1904									ASTM A194/A194M-16					
J18	ASTM STANDARD	3808									ASTM A240/A240M-16					
HEAT NO	GRADE	LOT NO	RAW MTRIAL REFERENCE HEAT								VISUAL & SURFACE					
H24	SS 316L	A 686	8952								O.K.					
H24	SS 316L	A 686	8952								O.K.					
B20	SS 316L	A 930	8725								O.K.					
J18	SS 316L	A 688	3622								O.K.					
CHEMICAL ANALYSIS																
HEAT NO	C	Mn	Si	P	S	Ni	Cr	Mo	Ti	Al	Cu	Fe	V	Cb	N	*Ce.
H24	0.021	1.24	0.360	0.018	0.014	10.92	16.72	2.140	-	-	-	-	-	-	0.040	-
H24	0.021	1.24	0.360	0.018	0.014	10.92	16.72	2.140	-	-	-	-	-	-	0.040	-
B20	0.020	1.28	0.350	0.020	0.012	10.74	16.68	2.180	-	-	-	-	-	-	0.042	-
J18	0.023	1.18	0.370	0.019	0.011	10.94	16.90	2.110	-	-	-	-	-	-	0.040	-
MECHANICAL TESTS																
HEAT NO	MARKING IDENTIFICATION	RS.YIELD	R.TENSILE	A% ELONG.	C% REDUCTION	PRESSURE EQUIPMENT		HARDNESS / DURETE								
		MPA	MPA	5*	STRICTION	DIRECTIVE		Rockwell C HRC								
H24	LOGO, GRADE, SIZE, THICKNESS, HEAT NO	248.00	556.00	42.00	69.00	O.K.		190, 191								
H24		242.00	548.00	42.00	68.20	O.K.		190, 191								
B20		256.00	578.00	42.00	66.00	O.K.		194, 195								
J18		284.00	596.00	44.00	-	O.K.		187, 188								
HEAT NO	HEAT TREATMENTS	ULTRA SONIC TEST			DIMENSIONAL		RESULTS									
H24	SOLUTION ANNEALED @ 1100 °C	SATISFACTORY			SATISFACTORY		ACCEPTED									
H24	SOLUTION ANNEALED @ 1100 °C	SATISFACTORY			SATISFACTORY		ACCEPTED									
B20	SOLUTION ANNEALED @ 1100 °C	SATISFACTORY			SATISFACTORY		ACCEPTED									
J18	SOLUTION ANNEALED @ 1100 °C	SATISFACTORY			SATISFACTORY		ACCEPTED									
Acc. To SS 316L - EN 10204 : 3.1 Surface and dimensional check according to relevent standard. Visual & Dimensional Check Found Satisfactory. Chemical & Mechanicla Properties Found Satisfactory. Hydro Test Carried out 100 % & Found Satisfactory. All Flanges are marked as per Standard (MARKING IDENTIFICATION - LOGO, TYPE, STANDARD, SIZE, THICKNESS, GRADE, HEAT NO). THE ABOVE MATERIAL CONFIRMS TO GALV. MALLEABLE IRON WITH RESPECT TO THE ELEMENTS ANALYSED.																
TRADE MARK	"DYE PENETRANT TEST" 100% D.P TEST CARRIED OUT - FOUND SATISFACTORY			INTERNAL INSPECTION  INSPECTOR : Mr. ARVIND MEHRA TUVSUD				FOR RISHABH STEEL INDUSTRIES  QC ENGINEER								