



MILL TEST CERTIFICATE

PANTECH STEEL INDUSTRIES SDN. BHD. (50731A)

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ISO 9001

Quality Management System is certified under ISO 9001:2015, Cert. No. 10050216
P01: 2014/08/07 Annex 1 Clause 4.3
Cert. No.: 0228/1602/MUM/09/00026

WROUGHT CARBON STEEL BUTTWELDING FITTINGS

INSPECTION DOCUMENT, EN10204:2004 Type 3.1

Certificate No: PSI 132406

Date: 28-Aug-18

Purchaser:

Order No.	Invoice No.	Total Net Wt. (kg)	Starting Material	Specification for Fittings- Seamless				Specification for Inspection									
REBWI-270218 REV 2 -1	E 000014427	22103.10	Seamless Pipe	ASTM A234 - 15b WPS / ASME SA234 - 15a WPS / ASME SA234 - ED 19 / NACE MR0103/12/150T / MR0175/15156-15*				ASME B16.9 - 12 / ASTM A960 - 14a									
Heat No.	Product & Size		Quantity (pcs)	Unit Weight (kg)	Visual Examination	Dimensional Inspection	Heat Treatment	Magnetic Particle Testing									
TD 501	3" 90 DEG SR STD ELBOW		33	1.38	GOOD	GOOD	H	N.A									
UF 604	3" 90 DEG SR STD ELBOW		187	1.38	GOOD	GOOD	H	N.A									
VB 104	10" 90 DEG SR STD ELBOW		10	24.00	GOOD	GOOD	H	N.A									
S 101	20" 90 DEG LR XS ELBOW		2	190.30	GOOD	GOOD	H	N.A									
TE 613	20" 90 DEG LR XS ELBOW		3	190.30	GOOD	GOOD	H	N.A									
Specification	Chemical Composition (%)												Tensile Test ¹			Hardness	
	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Pb	CE	YS	TS	E ²	(HB)	
Min	x100	x100	x100	x1000	x1000	x100	x100	x100	x100	x1000		x100	(KSI / MPa)	(%)			
Max	-	10	29	-	-	-	-	-	-	-	-	50	240	415	-	1	2
Heat No.	30	-	106	50	58	40	40	15	40	80	-	-	-	-	-	-	197
TD 501	12	17	81	11	0	2	6	2	3	0	< 0.10	27	304	440	34.9	123	124
UF 604	13	16	82	11	6	4	9	3	3	4	< 0.10	30	416	496	34.2	129	133
VB 104	17	23	39	18	6	2	6	2	5	4	< 0.10	26	260	445	35.2	134	136
S 101	17	24	58	24	10	3	8	0	2	8	< 0.10	30	262	460	43.6	131	133
TE 613	17	22	37	18	9	2	8	4	4	7	< 0.10	27	331	468	36.6	123	125

WE CERTIFY THAT ALL PRODUCTS WERE MANUFACTURED, SAMPLED, TESTED, AND INSPECTED SOLELY BY THE MANUFACTURER LISTED AT THE ADDRESS ABOVE IN ACCORDANCE WITH INDICATED SPECIFICATION AND FOUND TO MEET REQUIREMENTS. MATERIAL IS FREE FROM MERCURY AND RADIOACTIVE CONTAMINATION.

TENSILE REQUIREMENT: CONFORMS TO ASTM A370 STANDARD, LONGITUDINAL DIRECTION, GAUGE LENGTH 2" (50mm)

*HARDNESS ACCORDING TO NACE MR0103/ NACE MR0175/ISO15156

NOTE:

C: Cold formed at temperature below 620°C

N: Normalised at 910°C

S: Stress relieved in temperature between 695°C - 690°C and cooled in still air.

Q: Heated to 910°C and quench in water.

H: Hot formed in temperature between 845°C - 945°C and cooled in still air.

T: Temper between 590°C - 690°C.

*1: YS = Yield strength TS = Tensile strength E = Elongation

*2: For thickness above 7.94 mm, the minimum elongation value, E is 30. Else, E = 48t + 15, where t = specimen thickness, in
Made in Malaysia



Quality Assurance Manager