



# MILL TEST CERTIFICATE

PANTECH STEEL INDUSTRIES SDN. BHD. (509731-A)

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Quality Management System is certified under ISO 9001. Cert. No.: 10056716  
PED 2014/68/EU Annex I Clause 4.3  
Cert. No.: 0038/PED/MUM/0810070/1

## WROUGHT CARBON STEEL BUTTWELDING FITTINGS

INSPECTION DOCUMENT: EN10204:2004 Type 3.1

Certificate No : PSI 133479, Page 1 of 13

Date : 19-Jul-19

Purchaser :

Order No.	Invoice No.	Total Net Wt. (kg)	Starting Material	Specification for Fittings- Seamless				Specification for Inspection									
VPI-250519REV2-4	E 000014536	20312.90	Seamless Pipe	ASTM A234 -18a WPB / ASME SA234 -18a WPB NACE MR0103-12/ NACE MR0175/ISO15156-15*				ASME B16.9 - 18 / ASTM A960 - 14a									
Heat No.	Product & Size		Quantity (pcs)	Unit Weight (kg)	Visual Examination	Dimensional Inspection	Heat Treatment	Magnetic Particle Testing									
V 103	5" 90 DEG LR STD ELBOW		59	6.67	GOOD	GOOD	H	N.A									
UB 304	5" 90 DEG LR STD ELBOW		61	6.67	GOOD	GOOD	H	N.A									
VD 906	3" 90 DEG LR XS ELBOW		300	2.65	GOOD	GOOD	H	N.A									
VF 510	4" 90 DEG LR XS ELBOW		467	5.40	GOOD	GOOD	H	N.A									
VD 912	4" 90 DEG LR XS ELBOW		133	5.40	GOOD	GOOD	H	N.A									
Specification	Chemical Composition (%)												Tensile Test <sup>11</sup>			Hardness	
	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Pb	CE	YS	TS	E <sup>12</sup>	(HB)	
Min	x100	x100	x100	x1000	x1000	x100	x100	x100	x100	x1000		x100	(KSI / MPa)	(%)			
Max	-	10	29	-	-	-	-	-	-	-	-	-	240	415	-		
Heat No.	30	-	106	50	58	40	40	15	40	80	-	50	-	-	-	197	
V 103	13	14	79	13	4	2	4	2	2	0	< 0.10	28	379	491	35.6	132	136
UB 304	11	16	80	10	3	2	6	2	4	3	< 0.10	27	307	448	37.8	128	127
VD 906	20	23	40	16	14	4	11	1	13	0	< 0.10	30	413	510	31.0	128	125
VF 510	18	22	38	9	4	4	11	1	13	3	< 0.10	28	319	469	39.0	127	122
VD 912	18	19	39	13	9	4	11	1	14	2	< 0.10	29	343	470	34.2	137	139

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 595°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.

<sup>11</sup>: YS = Yield strength TS=Tensile strength E = Elongation

<sup>12</sup>: 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