



# MILL TEST CERTIFICATE

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

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WROUGHT CARBON STEEL BUTTWELDING FITTINGS

INSPECTION DOCUMENT: EN10204:2004 Type 3.1



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

Certificate No: PSI 133409, Page 3 of 6  
 Date: 20-Jun-19

Order No.	Invoice No.	Total Net Wt. (kg)	Starting Material	Specification for Fittings- Seamless	Specification for Inspection												
REBW/-061118-1	E 000014524	22785.40	Seamless Pipe	ASTM A234 -18a WPB / ASME SA234 -18a WPB NACE MR0103-12/ NACE MR0175/ISO 15156-15*	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										
VE 704	16" 90 DEG LR XS ELBOW	3	120.00	GOOD	GOOD	H	N/A										
VG 801	8" 45 DEG LR STD ELBOW	150	10.30	GOOD	GOOD	H	N/A										
VE 607	10" 45 DEG LR STD ELBOW	50	18.30	GOOD	GOOD	H	N/A										
V 806	12" 45 DEG LR STD ELBOW	30	27.00	GOOD	GOOD	H	N/A										
V 405	14" 45 DEG LR STD ELBOW	4	34.50	GOOD	GOOD	H	N/A										
Specification	Chemical Composition (%)																
	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Pb	CE	YS (KSI / MPa)	TS (MPa)	E <sup>2</sup> (%)	Hardness (HB)	
Min	x100	x100	x100	x1000	x1000	x100	x100	x100	x100	x1000	-	x100	240	415	-	1	2
Max	-	10	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heat No.	30	-	106	50	58	40	40	15	40	80	-	50	-	-	-	-	197
VE 704	16	24	58	17	6	0	1	1	1	3	<0.10	27	349	483	30.0	125	123
VG 801	15	19	42	22	7	0	2	1	2	2	<0.10	23	272	423	32.0	135	138
VE 607	21	20	39	10	18	4	11	0	12	0	<0.10	31	282	455	34.4	132	130
V 806	21	25	45	15	3	0	2	0	1	0	<0.10	29	315	439	40.6	131	133
V 405	20	21	40	23	6	3	9	3	10	7	<0.10	31	306	468	37.2	134	132

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/ISO 15156

NOTE:

C: Cold formed at temperature below 620°C

S: Stress relieved in temperature between 595°C - 690°C and cooled in still air.

H: Hot formed in temperature between 645°C - 945°C and cooled in still air.

N: Normalised at 910°C

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

T: Temper between 690°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