



# INSPECTION CERTIFICATE

PANTECH STEEL INDUSTRIES SDN. BHD. (599731-A)

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Quality Management System is certified under ISO 9001. Approval No.: 0047996  
 PED 2014/08/20 Annex 1 Clause 4.3  
 Cert. No.: 0343/PED/MUM/0810070/1

## WROUGHT CARBON STEEL BUTTWELDING FITTINGS

INSPECTION DOCUMENT: EN10204:2004 Type 3.1

Certificate No : PSI 137582-04

Date : 11-Aug-2022

Purchaser :

Order No.	Invoice No.	Starting Material	Specification for Fittings- Seamless	Specification for Inspection													
71515-2	E000017015	Seamless Pipe	ASTM A234 -19 WPB / ASME SA234 -21 WPB NACE MR0103-15/ NACE MR0175/ISO15156-15*	ASME B16.9 - 18 / ASTM A960 - 20													
Batch No.	Heat No. Pipe	Product & Size	Quantity (pcs)	Visual Examination	Dimensional Inspection	Heat Treatment	Magnetic Particle Testing										
DN107	16453675	6" 90 DEG LR XS ELBOW	86	GOOD	GOOD	H	N.A										
Z403	21309567	12" 45 DEG LR S20 ELBOW	6	GOOD	GOOD	H	N.A										
TG602	1632700V	12" 45 DEG LR S80 ELBOW	12	GOOD	GOOD	H	N.A										
YE740C	WC13B06439	12" x 10" STD CON RED	74	GOOD	GOOD	C & S	N.A										
Z409	21108270	10" 90 DEG SR XS ELBOW	54	GOOD	GOOD	H	N.A										
Specification		Chemical Composition (%)						Tensile Test <sup>1</sup>									
		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Pb	CE	YS	TS	E <sup>2</sup>	(HB)
		x100	x100	x100	x1000	x1000	x100	x100	x100	x100	x1000	x1000	x100	(KSI / MPa)	(%)		
	Min	-	10	29	-	-	-	-	-	-	-	-	-	240	415	-	1
	Max	30	-	106	50	58	40	40	15	40	80	-	50	-	-	-	197
Batch No.																	
DN107		19	25	44	19	5	0.4	2.3	0.1	0.5	0.6	< 0.10	27	307	437	30.0	120
Z403		18	17	39	16	7	0	4	0	4	3	< 0.10	26	367	460	33.0	129
TG602		11	30	125	13	3	2	5	2	4	5	< 0.10	34	262	441	44.0	131
YE740C		11	25	128	15	12	2	7	1	1	4	< 0.10	34	304	427	37.8	136
Z409		17	21	41	16	7	0	4	0	5	0	< 0.10	25	370	433	36.6	128

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)

\* FULLY KILLED

\* HARDNESS ACCORDING TO NACE MR0103/ NACE MR0175/ISO15156

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 620°C - 980°C and cooled in still air.

MT: Magnetic Particle Testing

N: Normalised at 910°C

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

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

Manufactured in Malaysia

Quality Assurance Manager