



# INSPECTION CERTIFICATE

PANTECH STEEL INDUSTRIES SDN. BHD. (509721-A)

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Quality Management System is certified under ISO 9001. Approval No.: 0047896

PEO 2014/68/EU Annex 1 Clause 4.3  
Cert. No.: 0938/PEO/MUM/0810070/1

## WROUGHT CARBON STEEL BUTTWELDING FITTINGS

INSPECTION DOCUMENT: EN10204:2004 Type 3.1

Certificate No : PSI 136174-04

Date : 01-Jul-2021

Purchaser :

Order No.	Invoice No.	Starting Material	Specification for Fittings- Seamless										Specification for Inspection				
71065-1	E000016063	Seamless Pipe	ASTM A234 -19 WPB / ASME SA234 -19 WPB NACE MR0103-15/ NACE MR0175/ISO15156-15*										ASME B16.9 - 18 / ASTM A960 - 20				
Batch No.	Product & Size		Quantity (pcs)		Visual Examination		Dimensional Inspection		Heat Treatment		Magnetic Particle Testing						
Y808	10" 45 DEG LR STD ELBOW		33		GOOD		GOOD		H		N.A						
X504	16" 45 DEG LR STD ELBOW		2		GOOD		GOOD		H		N.A						
Y209E	4" x 3" STD ECC RED		250		GOOD		GOOD		C & S		N.A						
YB218	10" 90 DEG LR STD ELBOW		8		GOOD		GOOD		H		N.A						
YB720	14" 90 DEG LR STD ELBOW		75		GOOD		GOOD		H		N.A						
Specification	Chemical Composition (%)												Tensile Test <sup>1</sup>			Hardness	
	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Pb	CE	YS (KSI / MPa)	TS	E <sup>2</sup> (%)	(HB)	
Min	x100	x100	x100	x1000	x1000	x100	x100	x100	x100	x1000	-	x100	240	415	-	1	2
Max	-	10	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Batch No.	30	-	106	50	58	40	40	15	40	80	-	50	-	-	-	197	
Y808	11	21	125	12	9	0	1	0	1	4	< 0.10	32	349	469	33.4	132	136
X504	14	23	57	17	3	3	5	1	1	4	< 0.10	25	279	466	39.8	129	123
Y209E	20	24	37	30	5	2	3	2	2	0	< 0.10	27	315	436	34.4	128	134
YB218	14	18	120	11	9	2	1	1	2	3	< 0.10	35	322	454	35.5	118	112
YB720	20	23	55	13	3	0	2	0	0	3	< 0.10	30	319	464	34.8	130	133

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.



Quality Assurance Manager

<sup>1</sup>: YS = Yield strength TS = Tensile strength E = Elongation

<sup>2</sup>: For thickness above 7.94 mm, the minimum elongation value, E is 30. Else, E = 4t + 15, where t = specimen thickness, in

Made in Malaysia