



INSPECTION CERTIFICATE

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

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Quality Management System is certified under ISO 9001. Approval. No.: 0047996

PED 2014/68/EU 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 137329-03

Date : 31-May-2022

Purchaser :

Order No.	Invoice No.	Starting Material	Specification for Fittings- Seamless										Specification for Inspection				
71132-1	E000016821	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.	Product & Size		Quantity (pcs)		Visual Examination		Dimensional Inspection		Heat Treatment		Magnetic Particle Testing						
A0205	3" 45 DEG LR STD ELBOW		360		GOOD		GOOD		H		N.A						
YE608	3" 45 DEG LR XS ELBOW		70		GOOD		GOOD		H		N.A						
YG202	5" 45 DEG LR STD ELBOW		50		GOOD		GOOD		H		N.A						
Z301MT	4" x 2" XS RED TEE		250		GOOD		GOOD		C & S		GOOD						
Specification	Chemical Composition (%)												Tensile Test ^{*1}			Hardness	
	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Pb	CE	YS	TS	E ^{*2}	(HB)	
	x100	x100	x100	x1000	x1000	x100	x100	x100	x100	x1000		x100	(KSI / MPa)	(%)	1	2	
Min	-	10	29	-	-	-	-	-	-	-	-	-	240	415	-	-	
Max	-	10	29	-	-	-	-	-	-	-	-	-	240	415	-	-	
Batch No.	30	-	106	50	58	40	40	15	40	80	-	50	-	-	-	197	
A0205	14	18	75	14	8	3	6	3	1	4	< 0.10	29	330	455	32.4	125	130
YE608	15	17	76	7	1	3	7	1	2	1	< 0.10	30	291	451	42.2	122	126
YG202	18	17	41	17	7	0	3	0	1	3	< 0.10	26	302	424	32.4	130	133
Z301MT	17	23	41	14	6	0	7	1	7	4	< 0.10	26	323	431	37.8	131	130

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

*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