



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 137405-05

Date : 14-Jun-2022

Purchaser :

Order No.	Invoice No.	Starting Material	Specification for Fittings- Seamless										Specification for Inspection				
71260-2	E000016866	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										
Z202C	4" x 2 1/2" STD CON RED		115	GOOD	GOOD	C & S	N.A										
RF403E	4" x 3" XS ECC RED		30	GOOD	GOOD	C & S	N.A										
YF901	8" 90 DEG SR XS ELBOW		30	GOOD	GOOD	H	N.A										
YD709	10" 90 DEG SR STD ELBOW		7	GOOD	GOOD	H	N.A										
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Batch No.	30	-	106	50	58	40	40	15	40	80	-	50	-	-	-	197	
Z202C	19	30	44	13	7	0	2	0	1	5	< 0.10	27	350	443	31.8	132	135
RF403E	7	22	122	14	2	3	4	0	5	6	< 0.10	29	309	446	33.9	127	128
YF901	20	21	53	13	3	0	6	2	4	3	< 0.10	31	315	481	34.5	135	130
YD709	11	16	115	13	5	0	7	0	3	4	< 0.10	32	309	441	41.0	133	136

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