



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 137870-07

Date : 26-Oct-2022

Purchaser :

Order No.	Invoice No.	Starting Material	Specification for Fittings- Seamless										Specification for Inspection					
71809-2	E000017200	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											
SF607	15307638	2 1/2" 90 DEG LR XS ELBOW	315	GOOD	GOOD	H	N.A											
A2402	12315648	2" 45 DEG LR STD ELBOW	140	GOOD	GOOD	H	N.A											
YE601	11312685	2" 45 DEG LR XS ELBOW	150	GOOD	GOOD	H	N.A											
Z506	21310021	10" 45 DEG LR STD ELBOW	57	GOOD	GOOD	H	N.A											
A2603	68817H	10" 45 DEG LR STD ELBOW	24	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 (KSI / MPa)	TS	E ² (%)	(HB)		
	Min	x100	x100	x100	x1000	x1000	x100	x100	x100	x100	x1000	-	x100	(KSI / MPa)	(%)	1	2	
Max	-	10	29	-	-	-	-	-	-	-	-	-	240	415	-	-		
Batch No.	30	-	106	50	58	40	40	15	40	80	-	50	-	-	-	197		
SF607	10	14	75	10	0	2	3	1	2	0	< 0.10	24	273	435	34.0	131	132	
A2402	12	23	74	18	7	2	3	4	3	3	< 0.10	26	383	499	38.2	126	129	
YE601	16	19	85	7	5	5	7	3	1	1	< 0.10	33	396	515	37.0	125	130	
Z506	20	21	42	14	7	0	13	5	6	4	< 0.10	31	288	441	35.6	124	127	
A2603	19	20	55	13	7	2	1	2	3	3	< 0.10	29	331	478	34.2	122	125	

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
Manufactured in Malaysia