INSPECTION CERTIFICATE

PANTECH STEEL INDUSTRIES SDN. BHD. (509731-A)
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LRQA CERTIFIED ISO 9001

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 137821-05
Date : 14-Oct-2022

Purchaser :

Order No.	Invoice No.	Starting Material	Specification for Fittings- Seamless	Specification for Inspection
71770-1	E000017167	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
A2111	22302351	12" 90 DEG LR S80 ELBOW	36	GOOD	GOOD	H	N.A
YE740E	WC13B06439	12" x 10" STD ECC RED	33	GOOD	GOOD	C & S	N.A

Specification	Chemical Composition (%)												Tensile Test *1			Hardness (HB)	
	C x100	Si x100	Mn x100	P x1000	S x1000	Ni x100	Cr x100	Mo x100	Cu x100	V x1000	Pb	CE x100	YS (KSI / MPa)	TS (KSI / MPa)	E*2 (%)	1	2
Min	-	-	-	-	-	-	-	-	-	-	-	-	240	415	-	-	
Max	-	10	29	-	-	-	-	-	-	-	-	50	-	-	-	197	
Batch No.																	
A2111	30	-	106	50	58	40	40	15	40	80	-	30	306	439	39.6	125	131
YE740E	20	26	58	15	9	0	2	1	1	3	< 0.10	34	304	427	37.8	133	136
	11	25	128	15	12	2	7	1	1	4	< 0.10						

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