



INSPECTION CERTIFICATE

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

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WROUGHT CARBON STEEL BUTTWELDING FITTINGS

INSPECTION DOCUMENT: EN10204:2004 Type 3.1



Quality Management System is certified under ISO 9001, Approval. No.: 0047996
PED 2014/68/EU Annex 1 Clause 4.3
Cert. No.: 0038/PED/MUM/0810070/1

Certificate No.: PSI135804-04

Date: 15-Mar-2021

Purchaser:

Order No.	Invoice No.	Starting Material	Specification for Fittings- Seamless										Specification for Inspection					
70865-3	E000015798	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		
BA814	2 1/2" 45 DEG LR S160 ELBOW							15		GOOD		GOOD		H		N.A		
NL103	3" 45 DEG LR XXS ELBOW							50		GOOD		GOOD		H		N.A		
RM201MT	4" S160 TEE							200		GOOD		GOOD		C & S		GOOD		
PJ301MT	4" XXS TEE							5		GOOD		GOOD		C & S		GOOD		
XE701C	1 1/2" x 3/4" XS CON RED							25		GOOD		GOOD		C & S		N.A		
Specification Min Max		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
Batch No.		30	-	106	50	58	40	40	15	40	80	-	50	-	-	-	197	
BA814		17	22	69	18	9	5	3	0	11	1	< 0.10	30	295	468	34.5	129	131
NL103		10	16	74	9	2	2	5	3	3	3	< 0.10	24	320	469	44.8	128	129
RM201MT		19	21	48	12	9	2	2	1	3	9	< 0.10	28	264	451	41.0	133	136
PJ301MT		12	24	105	16	8	1	3	0	8	6	< 0.10	31	457	631	46.2	130	132
XE701C		18	22	53	6	10	1	2	1	1	8	< 0.10	28	269	455	30.0	125	128

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.

N: Normalised at 910°C

Q: Heated to 910°C and quench in water.

T: Temper between 590°C - 690°C.

*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



Quality Assurance Manager