



INSPECTION CERTIFICATE

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

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Quality Management System is certified
under ISO 9001. Approval No.: 0047956
PED 2014/68/EU Annex 1 Clause 4.3
Cert. No.: 0343/PED/MUM/09810070/1

LRQA
CERTIFIED
ISO 9001

WROUGHT CARBON STEEL BUTTWELDING FITTINGS

INSPECTION DOCUMENT: EN10204:2004 Type 3.1

Purchaser :

Certificate No : PSI 139007-01
Date : 25-Jul-2023

Order No.	Invoice No.	Starting Material	Specification for Fittings- Seamless										Specification for Inspection				
			ASTM A234 -23 WPB / ASME SA234 -23 WPB NACE MR0103-15/ NACE MR0175/ISO15156-15*										ASME B16.9 - 18 / ASTM A960 - 23				
72159-2	E000017866	Seamless Pipe															
Batch No.	Heat No. Pipe	Product & Size	Quantity (pcs)		Visual Examination		Dimensional Inspection		Heat Treatment		Magnetic Particle Testing						
B2208	23C101393	6" x 45 DEG LR STD ELBOW	150		GOOD		GOOD		H		N.A						
B1203C	22C113551	3" x 2 1/2" STD CON RED	315		GOOD		GOOD		C & S		N.A						
B0213C	22C113616	6" x 3" STD CON RED	235		GOOD		GOOD		C & S		N.A						
B0213C	22C113616	6" x 4" STD CON RED	330		GOOD		GOOD		C & S		N.A						
B2106C	520886	8" x 6" STD CON RED	200		GOOD		GOOD		C & S		N.A						
Specification			Chemical Composition (%)										Tensile Test *1		Hardness		
Batch No.	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Pb	CE	YS (KSI / MPa)	TS	E ² (%)	Hardness (HB)	
																1	2
																Min	Max
B2208	14	22	37	19	5	0	3	1	1	2	< 0.10	21	361	503	36.2	130	136
B1203C	17	22	46	17	5	0	3	0	1	2	< 0.10	25	353	456	36.6	129	133
B0213C	17	29	42	10	0	1	2	0	1	0	< 0.10	25	324	474	32.2	131	136
B0213C	17	29	42	10	0	1	2	0	1	0	< 0.10	25	324	474	32.2	131	136
B2106C	20	25	45	18	4	2	4	1	3	3	< 0.10	29	309	448	35.8	131	133

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.

*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



Quality Assurance Manager