



INSPECTION CERTIFICATE

PANTECH STEEL INDUSTRIES SDN. BHD. (508731-A)

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Cert. No.: RLR 0403926

PEI 97/23/EC Annex 1, Clause 4.3

Cert. No.: 0038/PEI/MUM/0810070/1

WROUGHT CARBON STEEL BUTTWELDING FITTINGS

INSPECTION DOCUMENT: EN10204:2004 Type 3.1

Certificate No : PSI 94999

Date : 28-Oct-14

Purchaser :

Order No.	Invoice No.	Starting Material	Specification for Fittings- Seamless										Specification for inspection				
65997	E 000011182	Seamless Pipe	ASTM A234 -13 WPB / ASME SA234 -13 WPB NACE MR0175/ NACE MR 0103/ ISO15156*										ASME B16.9 - 12 / ASTM A960 - 10				
Heat No.	Product & Size		Quantity (pcs)		Visual Examination		Dimensional Inspection		Heat Treatment		Magnetic Particle Testing						
RC 701C	14" x 12" STD CON RED		10		GOOD		GOOD		C & S		N/A						
RG 402	2" x 1" STD RED TEE		25		GOOD		GOOD		C & S		GOOD						
Specification	Chemical Composition (%)												Tensile Test [†]			Hardness	
	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	E (%)	(HB)	
Min	-	10	29	-	-	-	-	-	-	-	-	-	240	415	22	-	
Max	-	10	29	-	-	-	-	-	-	-	-	-	240	415	22	-	
Heat No.	30	-	106	50	58	40	40	15	40	80	-	50	-	-	-	197	
RC 701C	21	20	56	14	5	11	17	0	3	2	<0.10	35	362	510	37.0	128	129
RG 402	11	19	79	7	6	3	7	2	2	0	<0.10	26	388	510	25.9	127	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 A970 STANDARD, LONGITUDINAL DIRECTION, GAUGE LENGTH 2" (50mm)

* HARDNESS ACCORDING TO NACE MR0175/ NACE MR 0103/ ISO15158

NOTE:

C: Cold formed at temperature below 820°C

S: Stress relieved in temperature between 595°C - 890°C and cooled in still air.

H: Hot formed in temperature between 845°C - 945°C and cooled in still air.

N: Normalised at 910°C

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

T: Temper between 560°C - 690°C.

†1: YS = Yield strength TS=Tensile strength E = Elongation

Made in Malaysia



Quality Assurance Manager