



MILL TEST CERTIFICATE

PANTECH STEEL INDUSTRIES SDN. BHD. (509721-A)
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CERTIFICADO DE CALIDAD ACEPTADO

Cert. No.: KLR 0403926
 PED 972/EC Annex 1 Clause 4.3
 Cert. No.: 0038/PED/MUM/0810070/1

WROUGHT CARBON STEEL BUTTWELDING FITTINGS
 INSPECTION DOCUMENT: EN10204:2004 Type 1

Purchase: PETROFORJA, S.A. DE C.V.
 Date: 2-Apr-15

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Order No.	Invoice No.	Total Net Wt. (kg)	Starting Material	Specification for Fittings- Seamless	Specification for Inspection									
REBWF-111114-C3	E 000011649	19901.20	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)	Unit Weight (kg)	Visual Examination	Dimensional Inspection	Heat Treatment	Magnetic Particle Testing							
LC 219	10" S80 TEE	14	49.00	GOOD	GOOD	C & S	GOOD							
RL 609	3" x 2" XS RED TEE	50	2.85	GOOD	GOOD	C & S	GOOD							
RD 512	8" x 6" XS RED TEE	30	25.20	GOOD	GOOD	C & S	GOOD							
RL 513	10" x 6" S80 RED TEE	12	43.90	GOOD	GOOD	C & S	GOOD							
Specification	Chemical Composition (%)			Tensile Test *1										
Min	C x100	Si x100	P x1000	Mn x100	S x1000	Ni x100	Cr x100	Mo x100	Cu x100	CE x100	YS (KSH/MPa)	TS	E (%)	Hardness (HB)
Max	-	10	-	29	-	-	-	-	-	-	240	415	22	1
Heat No.	30	-	50	106	58	40	40	15	40	50	-	-	-	197
LC 219	17	26	25	56	6	5	12	2	14	30	495	627	26.6	130
RL 609	13	17	7	78	5	0	4	0	3	28	374	501	30.5	128
RD 512	19	24	9	62	8	2	3	0	6	32	381	502	33.6	129
RL 513	16	22	17	39	12	4	8	1	8	27	280	472	39.8	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)
 *HARDNESS ACCORDING TO NACE MR0175/NACE MR 0103/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 845°C - 945°C and cooled in still air.
 N: Normalised at 910°C
 Q: Heated to 910°C and quenched in water.
 T: Tempered between 590°C - 690°C

*1: YS = Yield strength TS = Tensile strength E = Elongation
 Made in Malaysia

 Quality Assurance Manager

