



MILL TEST CERTIFICATE

PANTECH STEEL INDUSTRIES SDN. BHD. (509731-A)
 LOT 13258 & 13259, Jalan Haji Abd. Manan,
 Off Jalan Meru, 42200 Kapar, Selangor, Malaysia.
 Tel: 603-3393 1633 Fax: 603-3393 1733 E-mail: info@pantech.com



ISO 9001

Cert. No.: MLR 0403926
 PED 2014/68/EU Annex 1 Clause 4.3
 Cert. No.: 0038/PED/NUM/08100701

WROUGHT CARBON STEEL BUTTWELDING
 INSPECTION DOCUMENT: EN10204-2004 Type 3
ACCEPTANCE

Purchaser: PETROFORJA, S.A. DE C.V.

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Order No.	Invoice No.	Total Net Wt. (kg)	Starting Material	Specification for Fittings- Seamless		Specification for Inspection										
				ASTM A234 - 15 WPB / ASME SA234 - 15 WPB NACE MR0103-12/ NACE MR0175/ISO15156-15*	ASTM A234 - 15 WPB / ASME SA234 - 15 WPB NACE MR0103-12/ NACE MR0175/ISO15156-15*											
Heat No.	Product & Size	Quantity (pcs)	Unit Weight (kg)	Visual Examination	Dimensional Inspection	Magnetic Particle Testing										
RK 403	4" x 2" XS RED TEE	10	4.94	GOOD	GOOD	GOOD										
SB 110	4" x 3" XS RED TEE	10	5.33	GOOD	GOOD	GOOD										
NK 630	6" x 3" XS RED TEE	10	12.60	GOOD	GOOD	GOOD										
RJ 401	6" x 4" XS RED TEE	10	13.00	GOOD	GOOD	GOOD										
RK 505	8" x 6" XS RED TEE	10	25.20	GOOD	GOOD	GOOD										
Chemical Composition (%)																
Specification	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Pb	CE	Tensile Test ¹		Hardness	
	x100	x100	x100	x1000	x1000	x100	x100	x100	x100	x1000	x1000	x100	YS (KSI / MPa)	TS E ² (%)		
Min	-	10	29	-	-	-	-	-	-	-	-	-	240	415	1	2
Max	30	-	106	50	58	40	40	15	40	80	-	50	-	-	-	197
Heat No.																
RK 403	12	23	45	20	9	1	2	0	5	5	<0.10	21	388	469	43.2	129
SB 110	19	23	45	21	11	0	3	0	2	0	<0.10	27	401	496	37.6	132
NK 630	17	25	56	21	17	3	4	0	4	7	<0.10	29	346	492	36.6	133
RJ 401	20	21	45	19	8	0	1	0	1	2	<0.10	28	353	500	31.8	127
RK 505	18	22	55	16	4	5	5	4	5	3	<0.10	30	330	457	40.6	129

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 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 845°C - 945°C and cooled in still air.
- N: Normalised at 910°C
- O: Heated to 910°C and quenched 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 = 48 + 15, where t = specimen thickness, in Made in Malaysia



Quality Assurance Manager