



MILL TEST CERTIFICATE

PANTECH STEEL INDUSTRIES SDN. BHD.
 LOT 13258 & 13259, Jalan Haji Abd. Manjan,
 Off Jalan Meru, 42200 Klang, Selangor, Malaysia.

Tel: 603-3393 1633 Fax: 603-3393 1733 E-mail: info@pantechsteel.com



MM
VERIFICADO
DE CALIDAD
ACEPTADO

Cert. No.: IIR 0403926
 PD 97/23/EC Annex 1 Clause 4.3
 Cert. No.: 0098/PED/MUM/0603070/1

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WROUGHT CARBON STEEL BUTTWELDING FITTINGS

INSPECTION DOCUMENT: EN10204:2004 Type 3.1

Certificate No.: **ACCEPTADO**

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

Order No.	Invoice No.	Total Net Wt. (kg)	Starting Material	Specification for Fittings- Seamless	Specification for Inspection											
REBWF-130214-2	E 000010570	21326.25	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									
JN 406	4" x 3" XS RED TEE	10	5.33	GOOD	GOOD	C & S	GOOD									
NK 630	6" x 3" XS RED TEE	5	12.60	GOOD	GOOD	C & S	GOOD									
NF 620	8" x 6" XS RED TEE	5	25.20	GOOD	GOOD	C & S	GOOD									
Chemical Composition (%)																
Specification	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Pb	CE	YS	TS	E	Hardness
Min	x100	x100	x100	x1000	x10000	x100	x100	x100	x100	x1000	x100	x100	(KSI / MPa)	(%)	(HB)	
Max	-	10	29	-	-	-	-	-	-	-	-	-	240	415	22	
Heat No.	30	-	106	50	58	40	40	15	40	80	-	50	-	-	-	197
JN 406	17	29	57	18	8	2	3	0	5	3	<0.10	28	294	423	32.8	123
NK 630	17	25	56	21	17	3	4	0	4	7	<0.10	29	346	492	27.6	133
NF 620	17	24	48	17	4	4	3	0	4	3	<0.10	27	485	637	27.6	137

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 quench in water.

T: Temper between 590°C - 690°C.

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

Made in Malaysia



Quality Assurance Manager