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**MANUFACTURER'S CERTIFICATE**

(Mill Test Certificate) DIN 50049-3.1-B / EN 10204-3.1

Purchaser	: PLESA ANAHUAC Y CIAS. S.A. DE C.V.	Certificate No	: 120958
Product	: SEAMLESS STEEL WELDING FITTING	Order No	:
Specification	: ASTM A-234 WPB – 2011A	Date	: AUGUST 6, 2012
	: ASME SA234 WPB	L/C No	:

Raw Material Standard	Inspection Standard	Visual Inspection	Dimensional Inspection
PIPE : ASTM A106 B / A53B / API5LB PLATE : ASTM A516 Gr 50 / 60	ANSI B16.9 ANSI B16.28	PASS	PASS

Product & Size (inch)	Heat ID.	Quantity	Heat NO.	Raw Material Maker
1 90 ELBOW LR STD 2"	27801	1	718067	2554-801
2 45 ELBOW LR XH 2"	27802	1	923574	2554-802
3 CON RED STD 4"x3"	27913	1	D08-1-3425	2554-913
4 RED TEE STD 3"x2"	27901	1	031101652	2554-901

Standard	Chemical Composition %												Mechanical Test			Average Hardness	CE Long Formula	
	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Al	YS	TS	E			
	x 100	x 100	x 100	x 1000	x 1000	x 100	x 100	x 100	x 100	x 100	x 100	x 1000	x 1000	psi	psi	%	Hb	x 100
Min.	-	10	29	-	-	-	-	-	-	-	-	-	-	35,000	60,000	30	-	-
Max.	30	-	106	48	58	40	40	40	15	8	-	50	-	-	85,000	-	197	42
1	21	24	49	6	12	9	3	4	-	-	-	-	-	45700	66800	35	135	31
2	20	23	44	16	23	4	2	3	-	-	-	-	-	45000	67100	33	158	38
3	20	22	56	15	12	2	1	4	<1	<1	-	-	-	46400	66800	36	170	30
4	21	23	54	9	9	2	1	2	<1	<1	-	-	-	38900	67500	30	130	31

- We hereby certify that the products described herein have been manufactured, inspected and conforms to standard as specified above.
- ALL FITTINGS ARE HEAT TREATED TO MEET NACE MR0175-03 STANDARD SPECIFICATION AT 650-680 C x 1.0 HR.
- CE = C + (Mn/8) + (Cr + Mo + V)/5 + (Ni+Cu)/15
- ALL TEES ARE TESTED BY MAGNETIC PARTICLE EXAMINATION (MT)

  
 Chief of Quality Assurance Dept