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MANUFACTURER'S CERTIFICATE

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

Purchaser	: PLESA ANAHUAC Y CIAS, SA DE C.V.	Certificate No	: 130103
Product	: CARBON STEEL FITTINGS	Order No	: PO. 13745
Specification	: ASTM A-234 WPB / NACE MR-01-75	Date	: FEBRUARY 25, 2013
	: ASME SA234 WPB	L/C No	: M929152

Raw Material Standard	Inspection Standard	Visual Inspection	Dimensional Inspection
PIPE : ASTM A106 B / A53B / APISLB 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 XH 6"	32887	87	1107012	2554-887
2 90 ELBOW SR SCH80 3"	32036	50	J329036	BYYJ8207
3 90 ELBOW LR SCH160 2"	32475	50	210-248	2554-475
4 90 ELBOW LR SCH160 3"	32101	50	3384	2554-101

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	20	24	49	9	6	7	5	7	-	-	-	-	46100	70000	37	143	30	
2	20	17	62	23	11	1	2	7	1	0	-	-	44100	66300	63	157	32	
3	18	19	47	5	9	7	2	5	-	-	-	-	45400	67500	31	144	27	
4	19	26	49	15	15	1	1	5	-	-	-	-	46100	66100	37	158	29	

- 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/6) + (Cr + Mo + V)/5 + (Ni+Cu)/15
- ALL TEES ARE TESTED BY MAGNETIC PARTICLE EXAMINATION (MT)


 Chief of Quality Assurance Dept