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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	: 140384
Product	: SEAMLESS STEEL WELDING FITTING	Order No	: PO. 18799
Specification	: ASTM A-234 WPB – 2011A	Date	: JULY 14, 2014
	: ASME SA234 WPB	L/C No	: T/T

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 XH 1 1/2"	47346	50	208-97	2554-346
2 90 ELBOW LR XH 2"	47802	300	923574	2554-802
3 90 ELBOW LR XH 3"	47806	100	824162	2554-806
4 45 ELBOW LR XH 1 1/2"	47346	50	208-97	2554-346
5 45 ELBOW LR XH 2"	47802	70	923574	2554-802
6 45 ELBOW LR XH 3"	47806	50	824162	2554-806
7 45 ELBOW LR XH 5"	47813	10	11-1-1475	2554-813
8 RED TEE XH 4"x2"	47771	10	10-108874	2554-771
9 90 ELBOW LR SCH160 3"	47421	100	JOL3907	2554-011

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	19	21	49	8	6	14	5	5	-	-	-	-	-	45400	67100	34	150	30
2	20	23	44	16	23	4	2	3	-	-	-	-	-	45000	67100	33	158	38
3	18	19	51	15	8	3	2	3	-	-	-	-	-	48200	70400	36	155	38
4	19	21	49	8	6	14	5	5	-	-	-	-	-	45400	67100	34	150	30
5	20	23	44	16	23	4	2	3	-	-	-	-	-	45000	67100	33	158	38
6	18	19	51	15	8	3	2	3	-	-	-	-	-	48200	70400	36	155	38
7	18	23	43	15	14	11	9	6	-	-	-	-	-	46100	70000	36	149	38
8	21	21	52	15	5	3	1	2	<1	<1	-	-	-	47900	67500	30	125	30
9	19	23	93	16	4	1	2	4	1	0	-	-	-	52800	75900	59	158	36

* 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