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**MILL CERTIFICATE / PRODUCTION CERTIFICATE
 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	: 120671
Product	: CARBON STEEL FITTINGS	Order No	: PO. 13745
Specification	: ASTM A-234 WPB - 2011A	Date	: AUGUST 11, 2012
	: ASME SA234 WPB	L/C No	: M928369

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 5"	23812	1	11-711	2554-812
2 90 ELBOW LR STD 6"	26884	10	11-1-1478	2554-884
3 90 ELBOW LR STD 6"	28884	32	11-1-1478	2554-884
4 90 ELBOW LR STD 6"	22302	2	08-1-0110	2554-302
5 90 ELBOW LR STD 6"	25302	1	08-1-0110	2554-302
6 90 ELBOW LR STD 6"	28302	5	08-1-0110	2554-302
7 90 ELBOW LR STD 8"	28814	92	1107015	2554-814
8 90 ELBOW LR STD 12"	28807	10	671365	2554-807
9 90 ELBOW LR STD 16"	28318	18	0844607	2554-318
10 90 ELBOW LR STD 20"	28953	8	521353	2554-531
11 90 ELBOW LR SCH40 16"	28511	10	1036925	2554-511

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	x	x	x	x	x	x	x	x	x	x	x	x	psi	psi	%	Hb
Min.	-	10	29	-	-	-	-	-	-	-	-	-	35,000	60,000	30	-	-
Max.	30	-	106	48	58	40	40	40	15	8	-	50	-	85,000	-	197	42
1	18	25	51	18	15	6	9	7	-	-	-	-	46800	70000	36	165	39
2	18	21	44	10	12	10	8	4	-	-	-	-	47500	70700	36	156	27
3	18	21	44	10	12	10	8	4	-	-	-	-	47500	70700	36	156	27
4	18	23	52	25	7	11	4	9	-	-	-	-	50000	71400	36	101	35
5	18	23	52	25	7	11	4	9	-	-	-	-	50000	71400	36	101	35
6	18	23	52	25	7	11	4	9	-	-	-	-	50000	71400	36	101	35
7	19	25	50	15	9	7	4	9	-	-	-	-	47500	70700	35	147	30
8	19	21	57	16	7	6	2	4	-	-	-	-	40400	65400	38	164	30
9	20	23	50	12	10	10	4	4	-	-	-	-	45700	67500	33	140	36
10	19	24	49	2	2	2	2	6	-	-	-	-	38200	68900	33	155	27
11	22	21	40	10	3	5	3	3	1	<1	2	1	40600	35300	44	165	30

- 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