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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	: 130101
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 / 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 SCH40 12"	32807	20	671365	2554-807
2 45 ELBOW LR STD 3"	32805	200	321843	2554-805
3 45 ELBOW LR STD 6"	29884	250	11-1-1478	2554-884
4 45 ELBOW LR STD 10"	29815	49	1107003	2554-815
5 45 ELBOW LR STD 10"	32815	1	1107003	2554-815
6 45 ELBOW LR STD 12"	32807	42	671365	2554-807
7 45 ELBOW LR STD 24"	32954	5	601208	2554-954
8 TEE STD 1"	32691	20	575812	2554-691
9 TEE STD 2 1/2"	32521	20	1015306	2554-521
10 TEE STD 3"	29901	100	031101652	2554-901
11 TEE STD 3"	32901	50	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	x	x	x	x	x	x	x	x	x	x	x	psi	psi	%	Hb	x 100
Min.	-	10	29	-	-	-	-	-	-	-	-	-	35,000	60,000	30	-	-
Max.	30	-	106	48	58	40	40	15	8	-	50	-	85,000	-	197	42	42
1	19	21	57	16	7	6	2	4	-	-	-	-	40400	65400	38	164	30
2	20	22	43	16	10	2	1	1	-	-	-	-	42500	72100	34	167	38
3	18	21	44	10	12	10	8	4	-	-	-	-	47500	70700	36	156	27
4	19	24	51	14	7	11	10	9	-	-	-	-	47100	69600	37	141	39
5	19	24	51	14	7	11	10	9	-	-	-	-	47100	69600	37	141	39
6	19	21	57	16	7	6	2	4	-	-	-	-	40400	65400	38	164	30
7	20	24	50	1	2	2	2	5	-	-	-	-	37500	68900	34	154	28
8	19	21	39	12	17	3	2	3	-	-	-	-	39300	67500	31	165	37
9	19	22	41	10	5	4	2	4	1	2	1	2	55800	76125	34	166	38
10	21	23	54	9	9	2	1	2	<1	<1	-	-	38900	67500	30	130	31
11	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/6) + (Cr + Mo + V)/5 + (Ni+Cu)/15
- ALL TEES ARE TESTED BY MAGNETIC PARTICLE EXAMINATION (MT)

[Signature]
 Chief of Quality Assurance Dept