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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	: 140423
Product	: SEAMLESS STEEL WELDING FITTING	Order No	: PO. 18799
Specification	: ASTM A-234 WPB - 2011A	Date	: JULY 24, 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	Net Wts KG
1 90 ELBOW SR STD 6"	43802	13	08-1-0110	2554-302	89.70
2 TEE STD 12"	48497	20	1031436	2554-497	1206.00
3 RED TEE STD 12"x6"	48497	26	1031436	2554-497	1568.60
4 RED TEE STD 14"x12"	4849A	5	1031434	2554-49A	365.00
5 RED TEE STD 16"x10"	48861	5	208-15	2554-861	451.00
6 RED TEE STD 20"x16"	48872	4	710A-38	2554-872	566.00
7 CON RED STD 14"x10"	4849A	10	1031434	2554-49A	254.00
8 ECC RED STD 10"x4"	48605	5	1130716	2554-605	42.10
9 90 ELBOW LR XH 4"	48811	200	11-701	2554-811	1072.00
10 90 ELBOW LR SCH80 10"	48041	5	166006	2554-041	287.00
11 90 ELBOW LR SCH80 20"	48231	2	T98068	2554-231	746.00
12 45 ELBOW LR XH 6"	48887	10	1107012	2554-887	76.50

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 1000	x 1000	psi	psi	%		
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	23	52	25	7	11	4	9	-	-	-	-	50000	71400	36	101	35
2	14	37	96	18	3	5	2	3	1	1	1	4	47900	63800	48	140	33
3	14	37	96	18	3	5	2	3	1	1	1	4	47900	63800	48	140	33
4	17	40	95	15	3	8	2	3	1	1	1	3	53700	76900	40	150	36
5	19	21	52	14	10	14	6	6	-	-	-	-	46400	67900	34	172	30
6	19	22	50	10	7	11	5	5	<1	<1	-	-	45700	69600	40	142	29
7	17	40	95	15	3	8	2	3	1	1	1	3	53700	76900	40	150	36
8	23	25	88	12	8	8	3	7	1	<1	1	3	57300	81200	44	147	40
9	19	23	47	15	17	8	9	6	-	-	-	-	48200	70400	35	157	39
10	20	24	53	1	8	8	3	7	-	-	-	-	38200	69600	31	142	31
11	21	16	66	16	7	2	5	1	2	5	-	-	44000	71800	45	140	34
12	20	24	49	9	6	7	5	7	-	-	-	-	46100	70000	37	143	30

COUNTRY OF EXPORT : THAILAND
 COUNTRY OF ORIGIN : THAILAND

- 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