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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	: 130486
Product	: CARBON STEEL FITTINGS	Order No	: PO. 16082
Specification	: ASTM A-234 WPB / NACE MR-01-75	Date	: AUGUST 5, 2013
	: ASME SA234 WPB	L/C No	: M929849

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 RED TEE SCH40	6"x4"	20	11102288	2554-931
2 RED TEE SCH40	6"x3"	50	11102288	2554-931
3 RED TEE STD	20"x14"	2	710A-38	2554-872
4 CON RED SCH40	8"x4"	20	1037205	2554-942
5 CON RED STD	14"x10"	5	1031434	2554-49A
6 CON RED STD	18"x12"	2	710A-36	2554-871
7 CON RED STD	24"x20"	2	208-15	2554-862
8 CON RED STD	24"x16"	2	208-15	2554-862
9 ECC RED SCH40	6"x4"	50	11102288	2554-931
10 ECC RED SCH40	6"x3"	20	11102288	2554-931
11 ECC RED SCH40	8"x6"	50	1037205	2554-942

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	20	22	51	13	6	6	2	3	1	1	-	-	46400	67100	35	140	30
2	20	22	51	13	6	6	2	3	1	1	-	-	46400	67100	35	140	30
3	19	22	50	10	7	11	5	5	<1	<1	-	-	45700	69600	40	142	29
4	19	22	42	5	2	3	2	2	1	<1	1	2	49300	68200	47	101	27
5	17	40	95	15	3	8	2	3	1	1	1	3	53700	76900	40	150	36
6	18	25	50	8	6	11	5	5	<1	<1	-	-	48200	69300	34	171	28
7	19	21	52	14	10	14	6	6	-	-	-	-	46800	68200	35	160	30
8	19	21	52	14	10	14	6	6	-	-	-	-	46800	68200	35	160	30
9	20	22	51	13	6	6	2	3	1	1	-	-	46400	67100	35	140	30
10	20	22	51	13	6	6	2	3	1	1	-	-	46400	67100	35	140	30
11	19	22	42	5	2	3	2	2	1	<1	1	2	49300	68200	47	101	27

\* 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