

MANUFACTURER'S CERTIFICATE

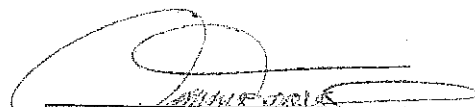
(Mill Test Certificate) DIN 50049-3.1-B / EN 10204-3.1

Purchaser	: PLESA ANAHUAC Y CIAS, SA DE C.V.	Certificate No	: 140035
Product	: CARBON STEEL FITTINGS	Order No	: PO. 17201
Specification	: ASTM A-234 WPB - 2011A	Date	: JANUARY 6, 2014
	: ASME SA234 WPB	L/C No	: M930449

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 ECC RED SCH40 6"x3"	41931	35	11102288	2554-931
2 ECC RED SCH40 6"x3"	39931	15	11102288	2554-931
3 ECC RED SCH40 8"x3"	41942	10	1037205	2554-942
4 45 ELBOW LR SCH80 8"	41816	10	1107010	2554-816
5 45 ELBOW LR SCH80 12"	41514	5	1036740	2554-514
6 TEE SCH80 2"	41556	100	1121186	2554-556
7 90 ELBOW LR SCH160 2"	41475	100	210-248	2554-475

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	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	42	5	2	3	2	2	1	<1	1	2	49300	68200	47	101	27
4	20	24	50	10	8	9	7	7	-	-	-	-	46100	70000	37	152	31
5	22	29	41	13	7	8	3	5	1	<1	2	1	38400	66700	37	145	31
6	21	22	41	10	4	6	2	4	1	<1	1	2	47850	71775	36	156	39
7	18	19	47	5	9	7	2	5	-	-	-	-	45400	67500	31	144	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/8) + (Cr + Mo + V)/5 + (Ni + Cu)/15
- ALL TEES ARE TESTED BY MAGNETIC PARTICLE EXAMINATION (MT)


 Chief of Quality Assurance Dept