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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	: 140115
Product	: CARBON STEEL FITTINGS MADE FROM SEAMLESS PIPES	Order No	: PO. 17201
Specification	: ASTM A-234 WPB - 2011A	Date	: DECEMBER 28, 2013
	: ASME SA234 WPB	L/C No	: M930449

Raw Material Standard	Inspection Standard	Visual Inspection		Dimensional Inspection
PIPE : ASTM A106 B / A53B / API5L B 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 CAP SCH40 10"	31516	50	243516	050696
2 CAP SCH40 12"	35442	20	232442	050696

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.	100	100	100	1000	1000	100	100	100	100	100	1000	1000	35,000	60,000	TRANSVERSE 17	197	42
Max.	30	-	106	48	58	40	40	40	15	8	-	50	-	85,000			
1	18	19	80	16	11	0	0	0	0	0	-	-	49300	71700	27	162	31
2	18	19	80	16	11	0	0	0	0	0	-	-	49300	71700	27	162	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 MR0175-5) STANDARD SPECIFICATION AT 850-650 °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