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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 : 140016  
 Product : CARBON STEEL FITTINGS MADE FROM SEAMLESS 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 / 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 CAP SCH80 3"	41953	20	488953	545370
2 CAP SCH80 6"	41398	20	594398	619536
3 CAP SCH80 8"	41398	10	594398	619536
4 CAP XH 12"	41398	10	594398	619536

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	%	Hb	x 100
Min.	-	10	29	-	-	-	-	-	-	-	-	-	35,000	60,000	TRANSVERSE 17		
Max.	30	-	106	48	58	40	40	40	15	8	-	50	-	85,000		197	42
1	15	37	91	21	14	0	0	0	0	0	-	-	46900	69000	24	158	30
2	13	24	89	20	10	0	0	0	0	0	-	-	42900	65600	29	168	28
3	13	24	89	20	10	0	0	0	0	0	-	-	42900	65600	29	168	28
4	13	24	89	20	10	0	0	0	0	0	-	-	42900	65600	29	168	28

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)

