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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 : **140490**  
 Product : **SEAMLESS STEEL WELDING FITTING** Order No : **PO. 18799**  
 Specification : **ASTM A-234 WPB – 2011A** Date : **SEPTEMBER 29, 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 ECC RED STD 12"x6"	49497	14	1031436	2554-497	177.80
2 90 ELBOW LR XH 6"	49887	100	1107012	2554-887	1530.00
3 90 ELBOW LR XH 8"	49816	70	1107010	2554-816	2163.00
4 90 ELBOW LR SCH80 12"	49161	30	1-61430	2554-161	2841.00
5 45 ELBOW LR XH 6"	49887	40	1107012	2554-887	306.00

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.	-	10	29	-	-	-	-	-	-	-	-	-	35,000	60,000	30	-	-
Max.	30	-	106	48	58	40	40	40	15	8	-	50	-	85,000	-	197	42
1	14	37	96	18	3	5	2	3	1	1	1	4	47900	63800	48	140	33
2	20	24	49	9	6	7	5	7	-	-	-	-	46100	70000	37	143	30
3	20	24	50	10	8	9	7	7	-	-	-	-	46100	70000	37	152	31
4	15	26	78	17	14	<1	1	3	<1	2	-	-	49500	71200	40	145	30
5	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)

*[Signature]*  
 Chief of Quality Assurance Dept