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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	: 140424
Product	: SEAMLESS STEEL WELDING FITTING	Order No	: PO. 18799
Specification	: ASTM A-234 WPB – 2011A	Date	: JULY 24, 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 45 ELBOW LR XH 10"	48314	10	0844607	2554-314	247.30
2 TEE XH 6"	48505	50	101614	2554-505	845.00
3 TEE XH 8"	48604	20	1037532	2554-604	630.00
4 TEE SCH160 2"	48475	20	210-248	2554-475	41.00
5 TEE SCH160 3"	48421	10	J0L3907	2554-011	52.50
6 TEE SCH160 4"	48909	11	1-61909	NGY855	108.90

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	23	50	12	10	10	4	4	-	-	-	-	45000	66400	33	152	36
2	20	21	39	16	17	2	2	2	-	-	-	-	39200	67500	32	146	27
3	23	26	88	11	4	9	3	4	1	<1	1	3	51500	78300	46	118	39
4	18	19	47	5	9	7	2	5	-	-	-	-	45400	67500	31	144	27
5	19	23	93	16	4	1	2	4	1	0	-	-	52800	75900	59	158	36
6	15	25	78	17	14	<1	1	3	<1	2	-	-	41800	71200	42	164	42

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)



Chief of Quality Assurance Dept