



MANUFACTURER'S CERTIFICATE
(Mill Test Certificate) DIN 50049-3.1-B / EN 10204-3.1

Purchaser : _____
 Product : SEAMLESS STEEL WELDING FITTING
 Specification : ASTM A-234 WPB - 2006A
 : ASME SA234 WPB

Certificate No : 1287984
 Order No : _____
 Date : DECEMBER 02, 2017

Raw Material Estándar	Inspection Standard	Visual Inspection		Dimention 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 RED. ECCE STD 16" x 12"		806	80	301781	B.T.L 414-875

Standard	Chemical Composition %												Mechanical Test			Average Hardness Hb	CE Long Formula x 100
	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	%		
Min.	-	10	29	-	-	-	-	-	-	-	-	-	35,000	60,000	30	-	-
Max	30	-	106	48	58	40	40	40	15	8	-	50	-	85,000	-	197	42
1	17	22	83	12	1	16	12	7	2	1	-	-	43322	75235	50	150	35

• Abbreviation: JFE = JFE STEEL CORP BTL = BENTELER, GERMANY SDC = SIDERCA, ARGENTINA
 SMI = SUMIMOTO, JAPAN DLM = DALMINE, ITALY MNM = MANNESMANN

• 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