



**PURCHASER**

ORDER NO. : 1078E  
 SPEC. FOR RAW MATERIAL : ASTM A106 Gr. B, ASTM A234 Gr. WPB  
 SPEC. FOR INSPECTION : ASTM A234 Gr. WPB - 2014a  
 ASME SA-234 Gr. WPB - 2015 JOB NO. : P11209058E  
 ASME B16.9-2012 / ANSI B16.9 CERTIFICATE NO. : GIF070307-035  
 BS EN 10204 3.1-2004 DATE : DEC 08, 2016

Product & Size (Inch)				Heat Code	Quantity	Heat No.	Raw Material Mfg	Certificate No.									
10	ECC RED	10" X 8"	80	L.Y3369	15	H.Y3369	MANESMANN	2-0206									
Spe.	Chemical Composition %												Tension Test			HARDNESS TEST	Magnetic Particle Exam.
	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	CE	Yield Strength	Tensile Strength	Elongation		
	X100	X100	X100	X1000	X1000	X100	X100	X100	X100	X1000	X1000	X100	P.S.I	P.S.I	%	H.B	
MIN		10	29										35000	60000	30		
MAX	25		106	50	53	40	40	40	15	80	20	42		95000		197	
10	15	24	87	15	8	7	3	4	1	5	1	31	43065	71195	36	141	GOOD
Visual Examination			Dimensional Inspection			Heat Treatment											
Acceptable			Good			S.R. 650°C x 0.5H											

$$CE = C + Mn/6 + (Cr + Mo + V) / 5 + (Ni + Cu) / 15$$

MATERIAL CONFORMS TO NACE MR0175-2009/ NACE-SP0472-2008,ISO-15156

We hereby certify that the products described here in have been manufactured and tested in accordance with specifications and also the purchaser's requirements concerned.

THE QUALITY MANGEMENT SYSTEM OF ISO 9001-2008 HAS BEEN APPROVED BY LRQA AND PED 97/23/EC, ANNEX I SEC. 4.3 TUV-NORD 0045

Quality Assurance Section/ Manager