



**Conexiones S.A.**

PURCHASER :  
 ORDER NO. : RK1213  
 PEC. FOR RAW MATERIAL : ASTM A106 Gr. B, ASTM A234 Gr. WPB  
 PEC. FOR INSPECTION : ASTM A234 - 13e1 WPB  
 ASME SA234 - 2013 WPB  
 ASME B16.9-2012 / ASME B16.25-2012  
 BS EN 10204 3.1-2004

TEL  
 FAX

JOB NO. : PI1403016  
 CERTIFICATE NO. : Q140625016-15  
 DATE : JUN. 25, 2014

	PO Item No.	Product & Size(Inch)		Heat Code		Quantity	Heat No.		Certificate No.								
68	85	RED. CON	4 x 2	S160	243	23	B818243		08-02-1016								
69	86	RED. CON	4 x 3	S160	953	50	319953		BGSAG1205230002200								
70	76	RED. CON	2 x 1-1/2	XH	414	20	317414		BGSAG1112050006400								
71	77	RED. CON	4 x 3	XH	38V	100	1323438V		C201334340-1								
72	105	RED. CON	10 x 6	XS	487	5	0933487		09-02-0712								
Chemical Composition %																	
Spe.													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	X100	X100	P.S.I	P.S.I	%		
MIN	10	29											35000	60000	30		
MAX	25		106	50	58	40	40	40	15	80	20	42		95000		197	
68	15	23	70	14	8	10	5	3	1	10	2	29	41180	69455	38	143	GOOD
69	19	24	55	12	5	5	4	6	2	<10	<1	31	46110	71775	36	129	GOOD
70	18	23	55	8	3	5	3	4	4	<10	<1	29	40455	64670	35	127	GOOD
71	15	33	97	13	2	8	3	6	2	3	1	34	40890	65685	37	131	GOOD
72	14	21	65	12	6	7	3	3	1	10	1	27	41470	62205	33	144	GOOD
			Visual Examination			Dimensional Inspection			Heat Treatment								
			Acceptable			Good			S.R 700°C x 0.5H								

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

MATERIAL CONFORMS TO NACE MR0175 - 2009

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.

NOTE

THE QUALITY MANAGEMENT SYSTEM OF ISO 9001-2008 AND PED 97/23/EC, ANNEX I SEC. 3 HAVE BEEN APPROVED BY LRQA  
 ANOTHER PED 97/23/EC, ANNEX I SEC. 4.3 TUV-NORD 0045

Quality Assurance Section/ Manager