

CERTIFICATE OF INSPECTION & TEST (EN 10204 3.1)

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Certificate No. MES9300-02/09 Date : MAY. 09. 2016
 Customer PLESA ANAHUAC Y CIAS., S.A. DE C.V.
 Contract No. 23308
 Spec. For Material ASTM A105N-14, ASME SA105N-15, NACE MR0175/ISO15156-1:2015
 Heat Treatment 930°C NORMALIZED & A.C

Certified to ISO9001:2008, ISO14001:2004, PED97/23/EC by LRQA

Dimensional inspection ASME B16.5 - 2013

ITEM / SIZE	Q'ty	Heat No./ Batch No.	Size of Test Specimen		Tension Test				Hardness Test (HB)		Charpy Impact Test (10X10mm Specimen Size)					
			D	GL	Max	Y.S MPa	T.S MPa	E.L %	R.A %	187	Indiv.	Ave.	Notch	Temp.		
			mm	mm											Min	250
BA150WR803	150LBS WN RF S80 3"	100	05837F	12.5	50.0		343	539	34	66	141	142				
BA150TR2	150LBS TH RF 2"	100	102902A	12.5	50.0		333	524	36	70	144	148				
BA150SR2	150LBS SO RF 2"	200	102902A	12.5	50.0		333	524	36	70	144	148				
	BLANK		BLANK													

Heat No./ Batch No.	Max Min	Chemical Composition (%)										CE	NDE					
		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V		UT	MT	PT			
05837F	H	0.184	0.299	1.000	0.023	0.011	0.045	0.052	0.008	0.019	0.003					0.367		
	P	0.186	0.308	0.990	0.018	0.014	0.050	0.054	0.004	0.020	0.004					0.368		
102902A	H	0.184	0.229	0.910	0.019	0.010	0.018	0.142	0.002	0.009	0.002					0.366		
	P	0.178	0.218	0.910	0.018	0.009	0.019	0.152	0.002	0.008	0.001					0.362		

REMARK * H : Heat Analysis P : Product Analysis

We hereby certify that the material herein has been made and tested in accordance with the above specification and also with the requirements called for by the above order.

H. J. LEE

Witnessed by / H. J. LEE



Manager of Q.A Dept. / E. S. PARK