

CERTIFICATE OF INSPECTION & TEST (EN 10204 3.1)

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Certificate No. MES9300-04/09 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	Y.S MPa	T.S MPa	E.L %	R.A %		187	Indiv.	Ave.	Notch	Temp.
			mm	mm					Max		Min	Test Result (J)		
BA150SR12 150LBS SO RF 12"	50	102902D	12.5	50.0	333	524	36	70	144	148				
BA150BR2 150LBS BL RF 2" BLANK	50	111308M BLANK	12.5	50.0	401	568	33	70	174	174				

Heat No./ Batch No.	Max Min	Chemical Composition (%)										NDE					
		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	CE	UT	MT	PT		
		0.350	0.350 0.100	1.050 0.600	0.035	0.040	0.400	0.300	0.120	0.400	0.080						
102902D	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
	H	0.169	0.212	1.220	0.015	0.011	0.032	0.148	0.008	0.011	0.002						0.406
111308M	P	0.171	0.256	1.250	0.014	0.009	0.030	0.134	0.002	0.009	0.002						0.409
											BLANK						

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.

Witnessed by / H. J. LEE

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

