

# CERTIFICATE OF INSPECTION & TEST (EN 10204 3.1)

**ST** ST&H CORPORATION  
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Certificate No. MES9300-07/09 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 mm	GL mm	Y.S MPa	T.S MPa	E.L %	R.A %		Indiv.	Ave.	Notch	Temp.			
			12.5	50.0	Max	Min	250	485	22.0	30.0	187	Test Result (J)		Ave.(J)		
BA150WRSTD24 150LBS WN RF STD 24"	5	600166A	12.5	50.0			324	501	38	69	145	148				
BA600BR24 600LBS BL RF 24"	5	601770D	12.5	50.0			324	514	34	68	147	148				
BA600BR16 600LBS BL RF 16"	5	601770D	12.5	50.0			324	514	34	68	147	148				
BLANK		BLANK					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			
600166A	H	0.166	0.321	1.020	0.011	0.001	0.012	0.101	0.006	0.012	0.002					0.359		
	P	0.168	0.325	1.040	0.012	0.003	0.017	0.099	0.004	0.012	0.001					0.364		
601770D	H	0.184	0.184	0.870	0.011	0.004	0.006	0.022	0.002	0.006	0.001					0.334		
	P	0.174	0.222	0.890	0.012	0.002	0.012	0.039	0.002	0.014	0.001					0.332		
		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

