

# CERTIFICATE OF INSPECTION & TEST (EN 10204 3.1)

**ST** ST&H CORPORATION  
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Certificate No. MES9300-01/09 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										
BA150WRSTD4	150LBS WN RF STD 4"	100	5A2960	12.5	50.0	250	485	22.0	30.0	141	142	Test Result (J)		Ave.(J)
BA150WRSTD3	150LBS WN RF STD 3"	100	5A2960	12.5	50.0	325	544	34	73	141	142			
BA150WRSTD2	150LBS WN RF STD 2"	100	5B755	12.5	50.0	328	522	36	67	143	145			
BA150WR802	150LBS WN RF S80 2"	100	5B755	12.5	50.0	328	522	36	67	143	145			
	BLANK		BLANK			BLANK				BLANK				

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	1.050	0.035	0.040	0.400	0.300	0.120	0.400	0.080					
		0.100	0.600													
5A2960	H	0.187	0.274	0.910	0.016	0.004	0.009	0.029	0.002	0.012	0.001					0.346
	P	0.186	0.262	0.900	0.014	0.005	0.009	0.032	0.005	0.012	0.003					0.345
	H	0.203	0.313	0.920	0.013	0.004	0.007	0.023	0.003	0.010	0.004					0.363
5B755	P	0.186	0.306	0.900	0.015	0.004	0.010	0.025	0.005	0.012	0.004					0.344
		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

