

# CERTIFICATE OF INSPECTION & TEST (EN 10204 3.1)

**ST&H CORPORATION**  
 74, Jwadongsunhwan-ro, Haeundae-gu, Busan, Korea  
 Tel : +82.51.744-4680(5 line) Fax : +82.51.744-4670  
 E-mail : qm@stnhcorp.com



Certificate No. MES9300-05/09 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)	
BA150WR804 150LBS WN RF S80 4"	100	111316	12.5	50.0	287	499	40	69	141	143			
BA150SR24 150LBS SO RF 24" BLANK	5	202087J BLANK	12.5	50.0	315	500	32	66	143	144			

Heat No./ Batch No.	Max Min	Chemical Composition (%)										CE	NDE					
		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V		UT	MT	PT			
111316	H	0.186	0.221	1.220	0.018	0.009	0.032	0.147	0.011	0.011	0.002				0.424			
	P	0.186	0.213	1.250	0.017	0.008	0.029	0.138	0.007	0.008	0.002				0.426			
	H	0.190	0.220	0.950	0.016	0.011	0.010	0.140	0.001	0.010	0.001				0.378			
202087J	P	0.184	0.235	0.930	0.018	0.017	0.016	0.126	0.002	0.009	0.003				0.366			
		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

