

CERTIFICATE OF INSPECTION & TEST (EN 10204 3.1)



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. MES9031 Date : JUL. 06. 2015
 Customer PLESA ANAHUAC Y CIAS., S.A. DE C.V.
 Contract No. 21136
 Spec. For Material ASTM A105-14/ASME SA105-13/NACE MR0175/ISO 15156-2009
 Heat Treatment AS FORGED

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
AA150BR12	150LBS BL RF 12"	20	B2173	12.5	50.0	290	510	36	68.5	139	144				
AA150BR8	150LBS BL RF 8"	50	B2173	12.5	50.0	290	510	36	68.5	139	144				
AA150SR12	150LBS SO RF 12"	50	B2173	12.5	50.0	290	510	36	68.5	139	144				
AA300WRSTD4	300LBS WN RF STD 4"	50	B2173	12.5	50.0	290	510	36	68.5	139	144				
AA300WRSTD8	300LBS WN RF STD 8"	30	B2173	12.5	50.0	290	510	36	68.5	139	144				
AA300BR2	300LBS BL RF 2"	20	B3451	12.5	50.0	390	550	32.5	70.5	148	152				
AA150BR16	150LBS BL RF 16"	10	B3497	12.5	50.0	355	520	36	70.5	147	150				
AA150SR18	150LBS SO RF 18"	10	B3497	12.5	50.0	355	520	36	70.5	147	150				
AA150SR24	150LBS SO RF 24"	5	B3497	12.5	50.0	355	520	36	70.5	147	150				
AA150WR4012	150LBS WN RF S40 12"	80	B3497	12.5	50.0	355	520	36	70.5	147	150				

Heat No./ Batch No.	Max Min	Chemical Composition (%)										NDE								
		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	CE	UT	MT	PT					
B2173		0.198	0.191	0.927	0.007	0.011	0.031	0.147	0.036	0.015	0.001					0.392				
B3451		0.202	0.260	0.906	0.018	0.007	0.007	0.047	0.019	0.007	0.003					0.367				
B3497		0.191	0.232	0.937	0.019	0.005	0.007	0.116	0.010	0.003	0.005					0.374				
		BLANK																		

REMARK

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