

# CERTIFICATE OF INSPECTION & TEST (EN 10204 3.1)

**ST&H CORPORATION**  
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**CE**  
 RPS 0160308 / 01

Certificate No. MJW8847 Date : MAR. 12. 2015  
 Customer PLESA ANAHUAC Y CIAS., S.A. DE C.V.  
 Contract No. 20100  
 Spec. For Material ASTM/ASME A/SA105-11a, 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
AA150SR8 150LBS SO RF 8"	500	14T1416	12.5	50.0	323	515	35	67	145	149				
AA150SR6 150LBS SO RF 6"	1000	14T1416	12.5	50.0	323	515	35	67	145	149				
AA150SR4 150LBS SO RF 4"	1000	14T1416	12.5	50.0	323	515	35	67	145	149				
AA150TR4 150LBS TH RF 4"	50	14T1416	12.5	50.0	323	515	35	67	145	149				
AA150BR18 150LBS BL RF 18"	5	14T3288	12.5	50.0	341	527	35	65	140	146				
AA150BR10 150LBS BL RF 10"	50	14T9722	12.5	50.0	303	499	38	70	142	148				
AA150SR10 150LBS SO RF 10"	100	14T9722	12.5	50.0	303	499	38	70	142	148				
AA300BR8 300LBS BL RF 8"	20	14T9722	12.5	50.0	303	499	38	70	142	148				
AA300WR808 300LBS WN RF S80 8"	30	14T9722	12.5	50.0	303	499	38	70	142	148				
AA300SR6 300LBS SO RF 6"	50	14T9722	12.5	50.0	303	499	38	70	142	148				

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						
14T1416		0.182	0.260	0.920	0.017	0.011	0.116	0.132	0.005	0.033	0.002						0.373
14T3288		0.177	0.273	0.990	0.018	0.012	0.020	0.030	0.002	0.038	0.004						0.353
14T9722		0.182	0.256	0.930	0.017	0.008	0.010	0.030	0.002	0.011	0.005						0.345
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. / J. W. PARK