

CERTIFICATE OF INSPECTION & TEST (EN 10204 3.1)

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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	Max	Y.S MPa	T.S MPa	E.L %	R.A %	187	Indiv.	Ave.	Notch	Temp.	
			mm	mm											Min
AA150SR16 150LBS SO RF 16"	20	14112140	12.5	50.0		289	505	31	70	145	148				
AA300WRSTD3 300LBS WN RF STD 3"	20	A9372	12.5	50.0		349	527	32	63	138	141				
AA300WRSTD4 300LBS WN RF STD 4"	30	B9690	12.5	50.0		365	533	30	46	142	142				
AA150WRSTD16 150LBS WN RF STD 16"	20	03216	12.5	50.0		346	520	32	64	140	143				
AA150WRXH16 150LBS WN RF XH 16" BLANK	10	03216 BLANK	12.5	50.0		346	520	32	64	140	143				

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					
14112140		0.168	0.264	0.880	0.012	0.003	0.027	0.067	0.007	0.091	0.003					0.337
A9372		0.224	0.274	0.960	0.020	0.009	0.011	0.042	0.002	0.014	0.003					0.395
B9690		0.214	0.297	0.950	0.021	0.009	0.009	0.050	0.002	0.026	0.003					0.385
03216		0.191	0.258	0.920	0.010	0.006	0.023	0.070	0.006	0.042	0.002					0.364

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.

H. J. LEE

Witnessed by / H. J. LEE



Manager of Q.A Dept. / J. W. PARK