

CERTIFICATE OF INSPECTION & TEST (EN 10204 3.1)



ST&H CORPORATION

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Certificate No. MJW9145A-07/09 Date : MAR. 08. 2016
 Customer PLESA ANAHUAC Y CIAS., S.A. DE C.V.
 Contract No. 22014
 Spec. For Material ASTM/ASME A/SA234-14 WPB,NACE MR0175-2009/ ISO15156-1:2015
 Heat Treatment NORMALIZED (900°C X 0.5HR)

Certified to ISO9001:2008, ISO14001:2004, PED97/23/EC by LRQA

Dimensional inspection ASME B16.9 - 2012

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	T.S	E.L	R.A	197	Indiv.	Ave.	Notch	Temp.
			mm	mm										
			12.5	50.0	Min	240	415	30.0			Test Result (J)		Ave.(J)	
GECRSD12X10 ECC RED STD 12" X 10"	20	WAAEU	12.5	50.0		275	475	37		122	134			
GCMRSD12X8 CON RED STD 12" X 8"	5	WAAEU	12.5	50.0		275	475	37		122	134			
GECRSD14X10 ECC RED STD 14" X 10"	20	WAAHD	12.5	50.0		265	490	36		113	138			
GECRSD16X12 ECC RED STD 16" X 12"	5	WAAGA	12.5	50.0		265	470	35		120	141			
GCMRSD16X12 CON RED STD 16" X 12"	10	WAAGA	12.5	50.0		265	470	35		120	141			
GCMRSD20X16 CON RED STD 20" X 16"	5	WBACC	12.5	50.0		290	500	35		118	134			
GECRSD4X3 ECC RED STD 4" X 3"	20	WAAGQ	12.5	50.0		280	475	36		114	135			
BLANK		BLANK				BLANK				BLANK				

Heat No./ Batch No.	Max Min	Chemical Composition (%)										NDE						
		C	SI	Mn	P	S	Cr	Mo	Ni	Cu	V	CE	UT	MT	PT			
		0.300	0.100	1.060	0.050	0.058	0.400	0.150	0.400	0.400	0.080				0.430			
WAAEU		0.200	0.290	0.420	0.011	0.007	0.008	0.006	0.009	0.005	0.003				0.274			GOOD
WAAHD		0.180	0.260	0.410	0.012	0.010	0.063	0.004	0.011	0.024	0.003				0.264			GOOD
WAAGA		0.180	0.324	0.502	0.007	0.009	0.012	0.018	0.035	0.028	0.006				0.275			GOOD
WBACC		0.145	0.297	1.050	0.009	0.006	0.023	0.031	0.018	0.008	0.002				0.332			GOOD
WAAGQ		0.198	0.315	0.476	0.012	0.010	0.025	0.020	0.052	0.046	0.005				0.293			GOOD

REMARK * CARBON STEEL FITTINGS MADE FROM PIPE
 * EXPORT COUNTRY - BUSAN, KOREA
 * COUNTRY OF ORIGIN - KOREA
 * TOTAL WEIGHT : 19,499 KGS

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

