

CERTIFICATE OF INSPECTION & TEST (EN 10204 3.1)



ST&H CORPORATION

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RPS 0160308 / 01

Certificate No. MJW9145A-01/09 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 / ISO15156-2009
 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	Y.S MPa	T.S MPa	E.L %	R.A %	197	Indiv.	Ave.	Notch	Temp.	
			mm	mm										
			12.5	50.0	Max									
			12.5	50.0	Min	240	415	30.0						
GEQTXS5 TEE XH 5"	10	WAAAZ	12.5	50.0		266	466	36		117	138			
GEQTXS8 TEE XH 8"	10	GBACA	12.5	50.0		270	480	34		118	129			
GEQTXS10 TEE XH 10"	5	WAAFW	12.5	50.0		265	480	35		116	136			
GEQTSTD18 TEE STD 18"	3	WAAGY	12.5	50.0		280	465	36		114	138			
GRETS16X12 RED TEE STD 16" X 12"	5	WAAGA	12.5	50.0		265	470	35		120	141			
GRETS16X8 RED TEE STD 16" X 8"	5	WAAGA	12.5	50.0		265	470	35		120	141			
GRETS16X10 RED TEE STD 16" X 10"	5	WAAGA	12.5	50.0		265	470	35		120	141			
BLANK		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			
WAAAZ		0.190	0.210	0.460	0.023	0.015	0.041	0.090	0.010	0.009	0.009				0.295		GOOD	
GBACA		0.190	0.230	0.420	0.009	0.007	0.012	0.004	0.011	0.020	0.002				0.265		GOOD	
WAAFW		0.216	0.310	0.520	0.007	0.012	0.018	0.020	0.034	0.026	0.007				0.315		GOOD	
WAAGY		0.190	0.260	0.500	0.009	0.012	0.020	0.014	0.042	0.035	0.003				0.285		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	

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.

[Handwritten Signature]

Witnessed by / H. J. LEE



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