

# CERTIFICATE OF INSPECTION & TEST (EN 10204 3.1)

**ST** ST&H CORPORATION

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Certificate No. MJW9145B-01/06 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

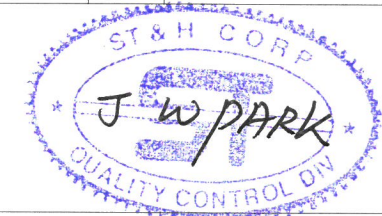
ITEM / SIZE	Q'ty	Heat No./ Batch No.	Size of Test Specimen		Tension Test				Hardness Test (HB)		Charpy Impact Test (10X10mm Specimen Size)			
			D	GL	Y.S MPa	T.S MPa	E.L %	R.A %	197	Indiv.	Ave.	Notch	Temp.	
			mm	mm										
GEQTSTD8 TEE STD 8"	4	GBABJ	12.5	50.0	240	415	30.0		113	130	Test Result (J)		Ave.(J)	
GEQTSTD8 TEE STD 8"	17	GBAFH	12.5	50.0	290	470	34		114	126				
GEQTSTD8 TEE STD 8"	5	WAACB	12.5	50.0	300	480	36		120	141				
GEQTSTD8 TEE STD 8"	39	GBAAK	12.5	50.0	280	490	34		123	135				
GRETS6X4 RED TEE STD 6" X 4" BLANK	50	WAAFD BLANK	12.5	50.0	270	475	36		122	136				

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			
GBABJ		0.180	0.210	0.390	0.008	0.007	0.014	0.008	0.014	0.002	0.002				0.250		GOOD	
GBAFH		0.210	0.240	0.450	0.009	0.005	0.020	0.003	0.009	0.005	0.002				0.290		GOOD	
WAACB		0.210	0.240	0.550	0.011	0.004	0.008	0.003	0.040	0.020	0.002				0.308		GOOD	
GBAAK		0.190	0.230	0.430	0.008	0.010	0.052	0.042	0.036	0.022	0.002				0.284		GOOD	
WAAFD		0.253	0.325	0.452	0.011	0.008	0.013	0.015	0.028	0.007	0.003				0.336		GOOD	

REMARK \* CARBON STEEL FITTINGS MADE FROM PIPE  
 \* EXPORT COUNTRY - BUSAN, KOREA  
 \* COUNTRY OF ORIGIN - KOREA  
 \* TOTAL WEIGHT : 18,360 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.

*[Signature]*  
 Witnessed by / H. J. LEE



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