

CERTIFICATE OF INSPECTION & TEST (EN 10204 3.1)

ST&H CORPORATION
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Certificate No. MJW9145A-02/09 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

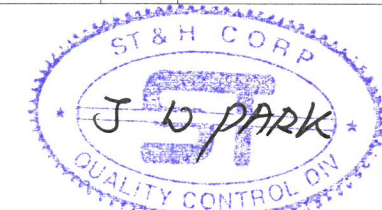
ITEM / SIZE	Q'ty	Heat No./ Batch No.	Size of Test Specimen		Tension Test				Hardness Test (HB)		Charpy Impact Test (10X10mm Specimen Size)			
			D	GL	Y.S MPa	T.S MPa	E.L %	R.A %	Test (HB)	197	Indiv.	Ave.	Notch	Temp.
			mm	mm										
GEQTS4016 TEE SCH40 16"	3	WAAJE	12.5	50.0	240	415	30.0		110	135	Test Result (J)			Ave.(J)
GRETS14X10 RED TEE STD 14" X 10"	20	WAAHD	12.5	50.0	265	490	36		113	138				
GRETS14X12 RED TEE STD 14" X 12"	5	WAAHD	12.5	50.0	265	490	36		113	138				
GEQTSTD3 TEE STD 3"	36	001553	12.5	50.0	310	520	35		120	140				
GEQTSTD3 TEE STD 3"	64	WAAGP	12.5	50.0	265	465	34		120	135				
GEQTSTD8 TEE STD 8"	4	GBAAD	12.5	50.0	265	470	34		110	129				
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			
WAAJE		0.220	0.270	0.440	0.017	0.013	0.011	0.003	0.024	0.011	0.003				0.299			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
001553		0.190	0.190	0.430	0.016	0.008	0.011	0.005	0.008	0.007	0.002				0.266			GOOD
WAAGP		0.210	0.280	0.480	0.008	0.008	0.015	0.022	0.060	0.045	0.003				0.305			GOOD
GBAAD		0.200	0.180	0.340	0.008	0.008	0.032	0.014	0.032	0.042	0.003				0.271			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.

[Signature]
 Witnessed by / H. J. LEE



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