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 CUSTOMER : BROWNSVILLE

# INSPECTION CERTIFICATE

(EN 10204:2004 3.1)

ST&H CORPORATION  
 1290-4 Jwa3dong, Haeundaegu, Busan, Korea  
 Tel : 82.51.7444680 (5 line) Fax : 82.51.7444670

발주번호 P/O NO.			원재료 RAW MATERIAL											성적서번호 CERTIFICATE NO												
BSC 2011-232(PSJ6425)			MADE FROM SEAMLESS PIPE											QA110808-02												
재료규격 Spec. for Material			검사규격 Spec. for Inspection				외관및치수검사 Surface & Dimension				비파괴검사 N.D.E			열처리 HEAT TREATMENT												
ASTM A234-07/ASME SA234-07 WPB NACE MR-0175			ASME B16.9				GOOD				MT:GOOD			NORMALIZED (850℃X0.5HR)												
STD	제품번호 STAMP NO.	화 학 성 분 CHEMICAL COMPOSITION (%)													인 장 시 험 Tensile Test				굽곡시험 Bending Test	평판시험 Flattening Test	경도시험 Hardness Test(HB)	충격시험 Impact Test	수압시험 Hydrostatic Test	C.E		
		C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	Nb	N	Y-P MPa	T-S MPa	EL (%)	RA (%)	( )	( )	( )	( )	( )				
SPEC	수량 Q'TY	MIN	0.10	0.29									240	415	22											
	MAX	0.30		1.06	0.05	0.058	0.40	0.15	0.40	0.40	0.08			655								197				
TEE STD			0.18	0.23	0.53	0.013	0.007	0.015	0.007	0.013	0.05	0.01		310	495	32										0.28
3"	56	02196		0.22	0.25	0.51	0.012	0.007	0.05	0.02	0.03	0.07	0.01		330	500	32									0.33
TEE STD			0.19	0.21	0.53	0.016	0.009	0.015	0.007	0.013	0.05	0.01		310	495	32										0.29
4"	1	02389		0.18	0.21	0.52	0.013	0.008	0.016	0.007	0.012	0.04	0.01		315	495	31									0.28
TEE STD			0.2	0.28	0.44	0.02	0.009	0.017	0.01	0.009	0.006	0.01		290	455	30										0.28
8"	100	03467																								

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.

1MPa = 145.037 psi  
 1MPa = 0.145037 ksi  
 1psi = 0.00689 MPa  
 1ksi = 6.89476 MPa

QUALITY INSPECTED AND SUPPLY BY ST&H CORP  
 MANUFACTURED BY PUSAN COUPLING CO.LTD

C.E.=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15

품질보증부  
 QUALITY ASSURANCE DEP'T  
 (株) 釜山 카프링  
 釜山 佐發

B.J. KIM / Q.A -GENERAL MANAGER