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 CUSTOMER Brownsville Steel City LLC

# 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 2010-222 (PSJ5724)			MADE FROM SEAMLESS PIPE										QA100724-02											
재료규격 Spec. for Material			검사규격 Spec. for Inspection				외관및치수검사 Surface & Dimension				비파괴검사 N.D.E			열처리 HEAT TREATMENT										
ASTM A234-05/ASME SA234-05 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	0.24	0.43	0.015	0.02	0.02	0.01	0.01	0.006	0.01			280	455	30							0.26
12"	5	03807																						
TEE XH			0.2	0.26	0.5	0.013	0.011	0.04	0.01	0.04	0.12	0.01			361	525	30							0.31
4"	25	02379																						
TEE XH			0.19	0.22	0.38	0.021	0.013	0.05	0.01	0.03	0.09	0.01			315	569	31							0.28
6"	30	03134																						
TEE XH			0.21	0.21	0.53	0.009	0.008	0.05	0.02	0.02	0.05	0.01			320	505	31							0.32
8"	10	03425																						
TEE XH			0.21	0.22	0.53	0.011	0.008	0.02	0.01	0.006	0.11	0.01			245	505	30							0.31
10"	2	03578																						

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.

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

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

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

양식번호 : QMS-8102-11

PUSAN COUPLING CO.,LTD