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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°CX0.5HR)											
STD	제품번호 STAMP NO.	화 학 성 분 CHEMICAL COMPOSITION (%)													인 장 시 험 Tensile Test				굽 곡 시 험 Bending	평 판 시 험 Flattening Test	경 도 시 험 Hardness Test(HB)	충 격 시 험 Impact Test	수 압 시 험 Hydrostatic Test	C.E	
		C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	Nb	N	Y-P MPa	T-S MPa	EL (%)	RA (%)	Test ( )							
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			
ECC RED STD			0.21	0.22	0.54	0.007	0.005	0.05	0.01	0.028	0.009	0.01	315	525	31										0.32
2" X 1"	5	01450N																							
ECC RED STD			0.21	0.22	0.54	0.007	0.005	0.05	0.01	0.028	0.009	0.01	315	525	31										0.32
2" X 1 1/2"	5	01450N																							
ECC RED STD			0.2	0.33	0.47	0.014	0.025	0.054	0.01	0.02	0.018	0.01	300	500	30										0.30
2 1/2" X 1"	5	01725N																							
ECC RED STD			0.2	0.33	0.47	0.014	0.025	0.054	0.01	0.02	0.018	0.01	300	500	30										0.30
2 1/2" X 2"	5	01725N																							
ECC RED STD			0.21	0.21	0.53	0.01	0.001	0.04	0.01	0.01	0.1	0.01	355	515	31										0.32
3" X 1 1/2"	5	02162																							

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

양식번호 : QMS-8102-11

PUSAN COUPLING CO.,LTD