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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				굴곡시험 Bending	평판시험 Flattening Test	경도시험 Hardness Test(HB)	충격시험 Impact Test	수압시험 Hydrost- atic 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			
CON RED STD			0.21	0.2	0.53	0.008	0.005	0.03	0.01	0.01	0.05	0.01	335	510	31				<197		0.31	
14" X 8"	3	03912H																				
CON RED STD			0.21	0.2	0.53	0.008	0.005	0.03	0.01	0.01	0.05	0.01	335	510	31				<197		0.31	
14" X 10"	4	03912H																				
CON RED STD			0.19	0.24	0.52	0.021	0.006	0.016	0.01	0.01	0.01	0.01	270	425	33				<197		0.29	
18" X 16"	3	04708																				
CON RED STD			0.19	0.24	0.52	0.021	0.006	0.016	0.01	0.01	0.01	0.01	270	425	33				<197		0.29	
18" X 14"	2	04708																				
CON RED STD			0.19	0.24	0.52	0.021	0.006	0.016	0.01	0.01	0.01	0.01	270	425	33				<197		0.29	
18" X 12"	3	04708																				

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

품질보증부  
 QUALITY ASSURANCE DEPT

(株) 釜山 카프링  
 釜山 佐發

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

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

양식번호 : QMS-8102-11

PUSAN COUPLING CO.,LTD