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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 2010-225 (PSJ6054)			MADE FROM SEAMLESS PIPE											QA110126-01														
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	수량	제품번호 STAMP NO.	화 학 성 분 CHEMICAL COMPOSITION (%)													인 장 시 험 Tensile Test				굴곡시험 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	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																												
	30	03163N	0.21	0.22	0.49	0.011	0.005	0.04	0.006	0.02	0.03	0.01			315	510	31											0.31
CON RED STD																												
	10	03455H	0.19	0.22	0.52	0.007	0.008	0.01	0.01	0.02	0.03	0.01			265	475	32											0.29
ECC RED STD																												
	10	03663H	0.19	0.21	0.54	0.007	0.008	0.04	0.01	0.03	0.09	0.01			295	490	33											0.30
ECC RED STD																												
	10	03646H	0.21	0.26	0.54	0.008	0.009	0.02	0.01	0.02	0.09	0.01			280	480	31											0.32
ECC RED STD																												
	10	03811H	0.19	0.21	0.52	0.006	0.01	0.02	0.01	0.02	0.02	0.01			295	495	31											0.29

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 依發

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

양식번호 : QMS-8102-11

PUSAN COUPLING CO.,LTD