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 CUSTOMER : BROWNSVILLE

INSPECTION CERTIFICATE

(EN 10204:2004 3.1)

ST&H CORPORATION
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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			620℃ ~ 980℃												
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 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 (%)		
SPEC	MIN			0.10	0.29											240	415	22								
	Q'TY	MAX	0.30		1.06	0.05	0.058	0.40	0.15	0.40	0.40	0.08					655							197		
LR 45D ELBOW SCH40			0.2	0.22	0.53	0.008	0.01	0.01	0.001	0.01	0.01	0.01			290	495	31									0.29
12"	10	03461																								
LR 45D ELBOW SCH80			0.19	0.21	0.52	0.013	0.008	0.016	0.007	0.012	0.04	0.01			315	495	31									0.29
10"	20	03462																								
LR 45D ELBOW SCH80			0.21	0.22	0.55	0.006	0.007	0.04	0.01	0.004	0.14	0.01			250	485	32									0.32
16"	5	03609																								
LR 45D ELBOW STD			0.2	0.22	0.53	0.008	0.01	0.01	0.001	0.01	0.01	0.01			290	495	31									0.29
12"	20	03461																								
LR 45D ELBOW STD			0.19	0.21	0.52	0.009	0.01	0.01	0.001	0.01	0.02	0.01			290	490	30									0.28
14"	5	03671																								

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 釜山 釜山

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