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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 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			
LR 45D ELBOW STD			0.19	0.23	0.53	0.009	0.006	0.023	0.02	0.009	0.013	0.01				325	490	31					<197			0.29
18"	5	03818																								
LR 45D ELBOW STD			0.19	0.24	0.43	0.012	0.023	0.038	0.01	0.02	0.01	0.01				255	470	30						<197		0.28
2"	200	01181																								
LR 45D ELBOW STD			0.17	0.22	0.53	0.012	0.007	0.014	0.009	0.01	0.015	0.01				315	500	31						<197		0.27
3"	200	01596R																								
LR 45D ELBOW STD			0.18	0.25	0.55	0.01	0.01	0.04	0.01	0.04	0.17	0.01				355	490	35						<197		0.30
3/4"	50	00502																								
LR 45D ELBOW STD			0.18	0.21	0.53	0.011	0.008	0.011	0.01	0.011	0.011	0.01				315	510	31						<197		0.28
4"	198	002002R																								

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 DEP'T

(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