

DATE OF ISSUE : JULY. 24. 2010
 CUSTOMER : BROWNSVILLE STEEL CITY LLC

INSPECTION CERTIFICATE

(EN 10204:2004 3.1)

ST&H CORPORATION
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발주번호 P/O NO.			원 재 료 RAW MATERIAL											성적서 번호 CERTIFICATE NO.											
BSC 2010 - 222 (PSJ5724)			MADE FROM SEAMLESS PIPE											QA100724 - 02											
재료규격 Spec. for Material			검사규격 Spec. for Inspection					외관 및 치수검사 Surface & Dimension				비파괴검사 N.D.E.			열 처 리 HEAT TREATMENT										
ASTM A234-05/ASME SA234-05 WPB NACE MR-0175			ASME B16.9					GOOD				MT : GOOD			620°C ~ 980°C										
STD	제품번호 STAMP NO.	화 학 성 분 CHEMICAL COMPOSITION (%)												인 장 시 험 Tensile Test				굴곡시험 Bending Test ()	편평시험 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-S Mpa	T-S Mpa	EL %	RA %								
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									
LR 45D ELBOW XH		0.19	0.25	0.46	0.021	0.026	0.05	0.01	0.021	0.018	0.01			300	500	29									0.28
12"	1	6774																							
LR 90D ELBOW STD		0.17	0.18	0.35	0.016	0.024	0.01	0.01	0.01	0.06	0.01			295	475	30									0.24
1/2"	35	1117																							
LR 90D ELBOW STD		0.19	0.18	0.42	0.016	0.021	0.02	0.01	0.02	0.05	0.01			290	480	28									0.27
3/4"	100	1711																							
LR 90D ELBOW STD		0.17	0.18	0.45	0.016	0.02	0.02	0.01	0.03	0.04	0.01			285	480	28									0.26
1"	265	2112																							
LR 90D ELBOW STD		0.19	0.18	0.46	0.017	0.019	0.02	0.01	0.04	0.03	0.01			280	490	28									0.28
1 1/4"	230	1001																							

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 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

양식번호 : QMS-8102-11

PUSAN COUPLING CO.,LTD