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 CUSTOMER : BROWNSVILLE

INSPECTION CERTIFICATE

(EN 10204:2004 3.1)

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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 | | | NORMALIZED (850℃X0.5HR) | | | | | | | | | | | | |
| STD | 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 | 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 | | | 0.2 | 0.25 | 0.43 | 0.012 | 0.007 | 0.015 | 0.01 | 0.009 | 0.006 | 0.01 | | 320 | 475 | 31 | | | | | | | | | | 0.28 |
| 8" X 6" | 20 | 03467H | | | | | | | | | | | | | | | | | | | | | | | | |
| CON RED XH | | | 0.18 | 0.23 | 0.53 | 0.013 | 0.007 | 0.015 | 0.007 | 0.013 | 0.05 | 0.01 | | 310 | 495 | 32 | | | | | | | | | | 0.28 |
| 3" X 2" | 20 | 02197N | | | | | | | | | | | | | | | | | | | | | | | | |
| ECC RED STD | | | 0.19 | 0.2 | 0.53 | 0.01 | 0.009 | 0.02 | 0.01 | 0.02 | 0.04 | 0.01 | | 275 | 495 | 32 | | | | | | | | | | 0.29 |
| 10" X 4" | 5 | 03671H | | | | | | | | | | | | | | | | | | | | | | | | |
| ECC RED STD | | | 0.19 | 0.22 | 0.44 | 0.033 | 0.008 | 0.02 | 0.01 | 0.011 | 0.007 | 0.01 | | 305 | 455 | 27.5 | | | | | | | | | | 0.27 |
| 12" X 6" | 5 | 03818H | | | | | | | | | | | | | | | | | | | | | | | | |
| ECC RED STD | | | 0.19 | 0.22 | 0.53 | 0.011 | 0.008 | 0.02 | 0.006 | 0.02 | 0.02 | 0.01 | | 305 | 500 | 32 | | | | | | | | | | 0.29 |
| 4" X 3" | 10 | 02389N | | | | | | | | | | | | | | | | | | | | | | | | |

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