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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 STEEL PLATE | | | | | | | | | | 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 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 | 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 | | | |
| CAP STD | | | 0.15 | 0.16 | 0.38 | 0.015 | 0.025 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | 295 | 430 | 34 | | | | | | | | 0.22 |
| 2 1/2" | 20 | 42006 | | | | | | | | | | | | | | | | | | | | | | | |
| CAP STD | | | 0.2 | 0.24 | 0.51 | 0.012 | 0.008 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | 295 | 430 | 30 | | | | | | | | 0.29 |
| 24" | 10 | 0409 | | | | | | | | | | | | | | | | | | | | | | | |
| CAP STD | | | 0.18 | 0.17 | 0.56 | 0.014 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | 350 | 475 | 35 | | | | | | | | 0.28 |
| 3" | 30 | 0402 | | | | | | | | | | | | | | | | | | | | | | | |
| CAP STD | | | 0.16 | 0.17 | 0.53 | 0.015 | 0.025 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | 300 | 470 | 35 | | | | | | | | 0.26 |
| 4" | 20 | 0403 | | | | | | | | | | | | | | | | | | | | | | | |
| CAP STD | | | 0.16 | 0.17 | 0.53 | 0.015 | 0.025 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | 300 | 470 | 35 | | | | | | | | 0.26 |
| 6" | 20 | 0403 | | | | | | | | | | | | | | | | | | | | | | | |

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