

SC 17681.

MILL TEST CERTIFICATE

HOT-ROLLED STAINLESS STEEL PLATE

EN 10204 3.1

Location: 612-1 Go Hyun-Ri, Chung Ha-Myun, Buk-Gu, Pohang, Kyung Buk Korea



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| 80529006 | 20080918-8211-1-080 | 1 / 2 |
| L/C NUMBER | | |
| 5744ILU060910008 | | |

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|-----------------------|----------|---------------|-------|
| ASTM A240/480 | 316L/316 | S31603/S31600 | No. 1 |
| ASME SEC II SA240/480 | 316L/316 | S31603/S31600 | No. 1 |

| | | |
|------------------------------------|----------------------|---------------|
| Heat Treatment - Solution Annealed | Condition of Plate | Marking |
| 2012 F WATER COOLING | GOOD | |
| Intergranular Corrosion Test | ASTM A262 Practice E | UT Test Spec. |

| No | Bundle No. | Reg. Test No. | Heat No. | Plate No. | Product SIZE | | | Qty (sh) | Weight (kg) | AGS | Roughness | Permeability (u) | POSITION | DR ECTION | S | Impact Test (Charpy) | | | | |
|-----------|------------|---------------|----------|---------------|--------------|----------|-----|----------|-------------|-----|-----------|------------------|----------|-----------|---|----------------------|---|-----|---|-----|
| | | | | | (inch) | | | | | | | | | | | V-notch | T | Min | J | |
| | | | | | T | W | L | | | | | | | | | | | | | 1st |
| 1 | 0806-0537 | | SC16016 | PB496380-1-01 | 0.75 | 96 | 240 | 1 | 2,291.0 | | | | T | | | | | | | |
| 2 | 0807-0369 | | SC17315 | PB539295-1-02 | 1.25 | 96 | 240 | 1 | 3,814.0 | | | | T | | | | | | | |
| 3 | 0807-0401 | | SC17680 | PB550999-1-01 | 1 | 96 | 240 | 1 | 3,046.0 | | | | T | | | | | | | |
| 4 | 0807-0401 | | SC17682 | PB551001-1-01 | 0.75 | 96 | 240 | 1 | 2,291.0 | | | | T | | | | | | | |
| 5 | 0809-0395 | | SC17681 | PB551122-1-01 | 3 | 96 | 120 | 1 | 4,570.0 | | | | T | | | | | | | |
| Sub Total | | | | | 5 | 18,012.0 | | | Grand Total | 5 | 17,151.0 | | | | | | | | | |

| No | D I V I S I O N | Chemical Composition (%) | | | | | | | | | | | | | | Practice | | | | Tensile Test (IN/mm=1MPa) | | | | Hardness | | |
|----|-----------------|--------------------------|-------|------|------|-------|-------|-------|-------|------|-------|------|------|----|----|----------|---|---|---|---------------------------|----------|------|------|----------|----|----|
| | | Cont | C | Si | Mn | P | S | Cr | Ni | Mo | N | Co | Cu | Ti | Nb | A | E | B | C | 0.2% Y.S | 1.0% Y.S | T S | EL | | | |
| | | Max | 0.030 | 0.75 | 2.00 | 0.045 | 0.030 | 16.00 | 14.00 | 3.00 | 0.100 | | | | | | | | | | | | | | | 95 |
| | | Min | | | | | | 16.00 | 10.00 | 2.00 | | | | | | | | | | | 25 | | 70 | | 40 | |
| 1 | L P | | 0.029 | 0.57 | 1.09 | 0.027 | 0.004 | 16.59 | 10.20 | 2.03 | 0.028 | 0.17 | 0.28 | | | | | | | 36.6 | 42.8 | 63.6 | 56.2 | 76.1 | | |
| 2 | L P | | 0.025 | 0.80 | 1.05 | 0.024 | 0.002 | 16.74 | 10.12 | 2.01 | 0.029 | 0.18 | 0.32 | | | | | | | 37.8 | 44.5 | 64.3 | 58.3 | 77.2 | | |
| 3 | L P | | 0.020 | 0.56 | 1.04 | 0.027 | 0.004 | 16.59 | 10.19 | 2.04 | 0.041 | 0.19 | 0.28 | | | | | | | 37.3 | 43.6 | 64.5 | 59.1 | 76.3 | | |
| 4 | L P | | 0.016 | 0.55 | 1.04 | 0.026 | 0.004 | 16.68 | 10.15 | 2.03 | 0.026 | 0.17 | 0.37 | | | | | | | 36.8 | 42.9 | 63.7 | 58.3 | 80.3 | | |
| 5 | L P | | 0.019 | 0.58 | 1.01 | 0.028 | 0.001 | 16.52 | 10.13 | 2.03 | 0.035 | 0.17 | 0.34 | | | | | | | 50.6 | 52.9 | 62.9 | 63.0 | 84.0 | | |

Remarks: Mercury Free. No weld repair statement.

Manufacture info. DK Corporation

NO WELD REPAIRS
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|-----------|--|--------------|-----------|--|----------------------|---------------------|
| Position | T: Tee | M: Middle | B: Bottom | Division | L: Lade Analysis | P: Product Analysis |
| Direction | L: Longitudinal | C: Crosswise | | AGS | ASTM E112 A.G.S Test | |
| Shape | 10% Oxalic Acid Etch Test - ASTM A262 Practice A | | | 1: Step Structure 2: Dual Structure | | |
| | 3: Etch Structure 4: Isolated Ferrite Root | | | 5: Interdendritic Etch 6: End Grain Pitting LI | | |
| | 0-0000 | | | HOT GOOD | | |

Signature: *Chaff...*

DK Corporation (http://www.dksteel.com) Rev.5(2005.12.18)

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