

MILL'S QUALITY CERTIFICATES



HISTEEL CO., LTD.

CERTIFICATE NO : HIE2007-00265 PAGE : 1

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405-310

L/C NO (P/O NO) : 1103051406

HEAD OFFICE : 89BLOCK 4LOT, GOZANDONG, NAMDONG-KU, INCHON, KOREA
TEL : (032)815-6386-8
FAX : (032)815-6389

COMMODITY : 577.245MT SQUARE AND RECTANGULAR PRIME STEEL PIPES/GRADE:ASTM A 500B. AS PER FOLLOWING BREAKDOWN

SEoul OFFICE : 57-8, CHUNGMU-RO 3-GA, JUNG-KU, SEoul, KOREA
TEL : (02)2273-2141-3
FAX : (02)2273-2157

CUSTOMER : DUFERCO SA

SPECIFICATION : ASTM A500 GR.B

| TYPE OF PIPE END | DIMENSION (OUTD.IA. X THICK. X LENGTH) | QUAN-TITY (PCS) | WEIGHT (KG) | HYDRO-STATIC TEST (Kg/cm ² PSI) | HEAT-NO. | PHYSICAL PROPERTIES | | CHEMICAL COMPOSITION | | | | | | | | | | IMPACT TEST (0 °C) | | REMARK (HARDNESS) |
|------------------|--|-----------------|-------------|--|----------|---------------------|-----------------------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-------------------|
| | | | | | | YIELD STRENGTH | TENSILE STRENGTH (EL) | C | Si | Mn | P | S | Cu | Ni | Cr | Mo | Nb | V | Ti | |
| ※1 ※2 | ※3 ※4 | ※5 | ※6 | ※7 | ※8 | ※9 | ※10 | ※11 | ※12 | ※13 | ※14 | ※15 | ※16 | ※17 | ※18 | ※19 | ※20 | ※21 | ※22 | |
| BPE | 4"X4" X 0.375" X 40' | 410 | 128,467 | 47,122 | 68,001 | SR27828 | 26 | H 16 | 1 | 31 | 10 | 6 | | | | | | | | |
| TOTAL | | 410 | 128,467 | | | | | | | | | | | | | | | | | |

NOTE 1 ※1 Type of pipe End

| | |
|----------------------------------|--------------------------------------|
| BPE :Black Plain End Square-cut | GPE :Galvanized Plain End Square-cut |
| BPEB :Black Plain End Beveled | GPEB :Galvanized Plain End Beveled |
| BTC :Black Threaded & Coupled | GTC :Galvanized Threaded & Coupled |
| BVJ :Black Victaulic Joint | GVJ :Galvanized Victaulic Joint |
| ETC :Enameled Threaded & Coupled | |

※ 2 NB:Nominal Bore, OD:Outside Diameter
 ※ 4 Unit (M:Meter, F:Feet, I:Inch)
 ※ 7 W : Weld Part
 ※ 9 POST SEAM ANNEALING
 ※ 12 Weld Ductility Test
 ※ 15 Flaring Test

※ 3 Unit (M:mm, I:Inch)
 ※ 6 Base Metal
 ※ 8 H:Heat (Ladle) Analysis , P:Product Analytics
 ※ 10 Visual & Dimension Test
 ※ 11 Flattening or Bending Test
 ※ 13 Nondestructive Test
 ※ 14 Drift Test
 ※ 15 Flaring Test
 ※ 16 Crush Test
 ※ 17 Reverse Flattening Test

ORIGINAL

HISTEEL CO., LTD. INSPECTION MANAGER

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HERE IN HAS BEEN ACCEPTED IN ACCORDANCE WITH THE PRESCRIBED SPECIFICATION AND ORDER

SUPERVISOR

J. K. UM / PRESIDENT

A4(210X297)