



TIANJIN TIANYINGTAI STEEL PIPE CO., LTD.

MILL TEST CERTIFICATE

CERT. NO.:

H131106-HL

MANUFACTURER:

TIANJIN TIANYINGTAI STEEL PIPE CO.,LTD.TIANJIN CHINA

CUSTOMER:

DUFERCO SA

THE MILL:

TIANJIN TIANYINGTAI STEEL PIPE CO.,LTD.TIANJIN CHINA

QUALITY SPECIFICATION AS PER DESCRIPTION OF GOODS: ASTM A500 G

PRODUCER:

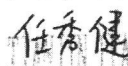
TIANJIN TIANYINGTAI STEEL PIPE CO.,LTD.TIANJIN CHINA

ISSUE DATE:

20-Jan-14

| HEAT NUMBER | EACH SIZE (INCH) | EACH SIZE (MM) | LENGT H (FT) | LENGT H (M) | NET AND GROSS WEIGHT (LBS) | NET AND GROSS WEIGHT (MT) | NUMBER OF BUNDLES | NUMBER OF PIECES | CHEMICAL COMPOSITION (%) | | | | MECHANICAL PROPERTIES | | | BEND FLATTENING TEST | NON-DESTRUCTIVE TEST |
|---|------------------|-----------------|--------------|-------------|----------------------------|---------------------------|-------------------|------------------|--------------------------|------|-------|-------|-----------------------|-----------|---------|----------------------|----------------------|
| | | | | | | | | | C | Mn | P | S | T.S (MPa) | Y.P (MPa) | E.L (%) | | |
| BLACK STEEL SQUARE AND RECTANGULAR HOLLOW SECTIONS | | | | | | | | | | | | | | | | | |
| H22077 | 10"X10"X1/2" | 250X250X12.70MM | 40 | 12.2 | 229852.80 | 104.323 | 24 | 92 | 0.22 | 1.12 | 0.030 | 0.028 | 450 | 330 | 25 | G | G |
| H16856 | 10"X10"X1/4" | 250X250X06.35MM | 40 | 12.2 | 109636.80 | 49.761 | 21 | 84 | 0.21 | 1.15 | 0.031 | 0.028 | 440 | 340 | 26 | G | G |
| H20667 | 10"X10"X3/8" | 250X250X09.53MM | 40 | 12.2 | 176272.00 | 80.005 | 23 | 92 | 0.21 | 1.12 | 0.031 | 0.029 | 460 | 335 | 24 | G | G |
| H17843 | 10"X10"X5/16" | 250X250X07.94MM | 40 | 12.2 | 109752.00 | 49.813 | 17 | 68 | 0.22 | 1.13 | 0.029 | 0.028 | 460 | 330 | 25 | G | G |
| H22077 | 10"X6"X1/2" | 250X250X12.7MM | 40 | 12.2 | 70344.00 | 31.927 | 9 | 36 | 0.22 | 1.15 | 0.030 | 0.030 | 440 | 335 | 25 | G | G |
| H16856 | 10"X6"X1/4" | 250X150X06.35MM | 40 | 12.2 | 68164.80 | 30.938 | 17 | 66 | 0.20 | 1.14 | 0.029 | 0.028 | 430 | 335 | 26 | G | G |
| H11301 | 10"X6"X3/16" | 250X150X04.76MM | 40 | 12.2 | 65956.80 | 29.935 | 14 | 84 | 0.21 | 1.14 | 0.030 | 0.031 | 440 | 340 | 24 | G | G |
| H22077 | 12"X12"X1/2" | 300X300X12.70MM | 40 | 12.2 | 200824.80 | 91.148 | 33 | 66 | 0.20 | 1.12 | 0.032 | 0.030 | 450 | 345 | 25 | G | G |
| H20667 | 12"X12"X3/8" | 300X300X09.53MM | 40 | 12.2 | 134792.00 | 61.178 | 29 | 58 | 0.22 | 1.15 | 0.031 | 0.031 | 430 | 340 | 25 | G | G |
| H20667 | 12"X8"X3/8" | 300X200X09.53MM | 40 | 12.2 | 68976.00 | 31.306 | 9 | 36 | 0.20 | 1.12 | 0.029 | 0.030 | 440 | 330 | 26 | G | G |
| H22077 | 14"X14"X1/2" | 350X350X12.70MM | 40 | 12.2 | 132726.40 | 60.240 | 37 | 37 | 0.22 | 1.13 | 0.030 | 0.031 | 450 | 340 | 24 | G | G |
| H20667 | 14"X14"X3/8" | 350X350X09.53MM | 40 | 12.2 | 153014.40 | 69.449 | 56 | 56 | 0.21 | 1.15 | 0.031 | 0.028 | 460 | 330 | 25 | G | G |
| H22077 | 16"X16"X1/2" | 400X400X12.70MM | 40 | 12.2 | 66112.00 | 30.006 | 16 | 16 | 0.22 | 1.14 | 0.029 | 0.029 | 440 | 335 | 25 | G | G |
| H20667 | 16"X16"X3/8" | 400X400X09.53MM | 40 | 12.2 | 65956.80 | 29.936 | 21 | 21 | 0.21 | 1.14 | 0.030 | 0.030 | 460 | 340 | 26 | G | G |
| H22077 | 6"X6"X1/2" | 150X150X12.70MM | 40 | 12.2 | 67660.80 | 30.709 | 12 | 48 | 0.22 | 1.12 | 0.032 | 0.029 | 450 | 335 | 24 | G | G |
| H11301 | 6"X6"X3/16" | 150X150X04.76MM | 40 | 12.2 | 219693.60 | 99.712 | 42 | 378 | 0.22 | 1.15 | 0.031 | 0.031 | 460 | 330 | 25 | G | G |
| H20667 | 6"X6"X3/8" | 150X150X09.53MM | 40 | 12.2 | 65952.00 | 29.934 | 10 | 60 | 0.21 | 1.12 | 0.032 | 0.031 | 440 | 340 | 25 | G | G |
| H17843 | 6"X6"X5/16" | 150X150X07.94MM | 40 | 12.2 | 67219.20 | 30.509 | 8 | 72 | 0.21 | 1.13 | 0.029 | 0.029 | 430 | 340 | 26 | G | G |
| H16856 | 8"X4"X1/4" | 200X100X06.35MM | 40 | 12.2 | 66950.40 | 30.387 | 11 | 88 | 0.21 | 1.15 | 0.030 | 0.028 | 450 | 330 | 24 | G | G |
| H22077 | 8"X8"X1/2" | 200X200X12.70MM | 40 | 12.2 | 70344.00 | 31.927 | 9 | 36 | 0.22 | 1.14 | 0.030 | 0.029 | 440 | 335 | 25 | G | G |
| H11301 | 8"X8"X3/16" | 200X200X04.76MM | 40 | 12.2 | 87942.40 | 39.914 | 28 | 112 | 0.21 | 1.14 | 0.031 | 0.029 | 430 | 330 | 24 | G | G |
| H20667 | 8"X8"X3/8" | 200X200X09.53MM | 40 | 12.2 | 132668.80 | 60.214 | 22 | 88 | 0.20 | 1.12 | 0.029 | 0.028 | 450 | 345 | 25 | G | G |
| H17843 | 8"X8"X5/16" | 200X200X07.94MM | 40 | 12.2 | 132454.40 | 60.117 | 26 | 104 | 0.21 | 1.13 | 0.028 | 0.030 | 460 | 335 | 25 | G | G |
| TOTAL | | | | | | 2563267.20 | 1163.388 | 494 | 1798 | | | | | | | | |

WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATION AND THE RESULTS OF ALL TEST ARE ACCEPTABLE.


 SIGNATURE
 TIANYINGTAI STEEL PIPE CO., LTD.