



SILCOTUB SA

Quantity and Service
B.D. NIKHAI VITEAZU NO.83
47th ZALAU
ROMANIA

MILL TEST CERTIFICATE
ACCORDING TO EN 10228/15

DATE: 14.02.2008

ORDER NO. PO 00030

SPECIFICATION

BUYER: DUPERCO SA
VIA BACALUTI +
4800 LUBARD
SINTZE RYAND

ASTM A 570M; ASTM A 570M;

CATYFICAL
GRADE B

WAGON NO.:
BRAY BODY NO.:
TRUCK NO.:

No. 3

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| No. | SIZE | HEAT NUMBER | NUMBER OF PIECES | NUMBER OF PIECES | LENGTH IN METERS | WEIGHT IN TON METRIC TON | ITEM | LOT |
|-----|------------------------------|-------------|------------------|------------------|------------------|--------------------------|------|-----|
| 1 | 4" SCH 40 (114.30 x 6.02 mm) | 34004 | 353 | | | | 3 | |
| | | 04311 | 38 | | | | | |
| | | 99917 | 114 | | | | | |
| | | 34003 | 38 | | | | | |
| | | 31832 | 57 | | | | | |
| | | 89937 | 76 | | | | | |

DESCRIPTION: 403.414 TM SEAMLESS PIPE A-53GR B SML. OUTSIDE VARNISHED WITH BLACK LAQUER (DUPERCO REF. NO 184330)

PRODUCT ANALYSES

| No. | HEAT | Sample no. | CHEMICAL COMPOSITION % | | | | | | | | | | MECHANICAL PROPERTIES | | | | | OTHER TESTS | | | Hydrostatic PSI | NONDESTRUCTIVE TEST |
|-----|-------|------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------------|------------------|------------|---------|---------|-------------|----------|------|-----------------|---------------------|
| | | | C | Mn | Si | P | S | Cr | Ni | Mo | Cu | V | Yield strength | Tensile strength | Elongation | Flaming | Bending | Flaring | Hardness | | | |
| 1 | 34004 | 38189 | 0.178 | 0.551 | 0.243 | 0.011 | 0.003 | 0.187 | 0.106 | 0.008 | 0.184 | 0.001 | 2210 | GOOD | - | - | - | - | - | 2210 | - | |
| 2 | 04311 | 38183 | 0.148 | 0.588 | 0.283 | 0.008 | 0.005 | 0.049 | 0.084 | 0.012 | 0.215 | 0.001 | 2210 | GOOD | - | - | - | - | - | 2210 | - | |
| 3 | 99917 | 39184 | 0.145 | 0.580 | 0.281 | 0.008 | 0.005 | 0.049 | 0.084 | 0.012 | 0.213 | 0.001 | 2210 | GOOD | - | - | - | - | - | 2210 | - | |
| 4 | 34003 | 39188 | 0.178 | 0.559 | 0.248 | 0.012 | 0.005 | 0.128 | 0.107 | 0.008 | 0.187 | 0.001 | 2210 | GOOD | - | - | - | - | - | 2210 | - | |
| 5 | 31832 | 39187 | 0.184 | 0.585 | 0.286 | 0.012 | 0.003 | 0.128 | 0.106 | 0.008 | 0.188 | 0.001 | 2210 | GOOD | - | - | - | - | - | 2210 | - | |
| 6 | 99917 | 39181 | 0.233 | 0.764 | 0.387 | 0.012 | 0.008 | 0.133 | 0.113 | 0.021 | 0.281 | 0.001 | 2210 | GOOD | - | - | - | - | - | 2210 | - | |
| | | 99937 | 0.233 | 0.787 | 0.390 | 0.012 | 0.008 | 0.133 | 0.113 | 0.021 | 0.281 | 0.001 | 2210 | GOOD | - | - | - | - | - | 2210 | - | |

| No. | HEAT | Sample no. | Dimensions inch x inch | Section inch | Length inch | Tensile strength | | Yield strength | | Elongation | | GRANPY VANTON | | | TEMP. | SHEAR | |
|-----|-------|------------|------------------------|--------------|-------------|------------------|-------|----------------|--------|------------|-------|---------------|---|---|-------|-------|---|
| | | | | | | Result | Min. | Max. | Result | Min. | Max. | 1 | 2 | 3 | | | |
| 1 | 34004 | 39189 | 0.99 x 0.23 | 0.23 | 2.00 | 72988 | 60000 | 72988 | 35000 | 48928 | 23.00 | 54.30 | 1 | 2 | 3 | 4 | 5 |
| 2 | 04311 | 39183 | 0.99 x 0.23 | 0.23 | 2.00 | 68506 | 60000 | 68506 | 35000 | 45272 | 23.00 | 35.48 | 1 | 2 | 3 | 4 | 5 |
| 3 | 99917 | 39188 | 0.99 x 0.23 | 0.23 | 2.00 | 68579 | 60000 | 68579 | 35000 | 44200 | 23.00 | 35.40 | 1 | 2 | 3 | 4 | 5 |
| 4 | 34003 | 39185 | 1.00 x 0.23 | 0.23 | 2.00 | 70910 | 60000 | 70910 | 35000 | 46198 | 23.00 | 35.10 | 1 | 2 | 3 | 4 | 5 |
| 5 | 31832 | 39187 | 1.00 x 0.23 | 0.23 | 2.00 | 75270 | 60000 | 75270 | 35000 | 47428 | 23.00 | 35.10 | 1 | 2 | 3 | 4 | 5 |
| 6 | 99917 | 39181 | 0.99 x 0.23 | 0.23 | 2.00 | 85868 | 60000 | 85868 | 35000 | 51735 | 23.00 | 30.20 | 1 | 2 | 3 | 4 | 5 |

SIGNATURE

QUALITY DEPT. CHIEF
ING. TIBERIU ERDŐ

