

NOKSEL

MILL TEST CERTIFICATE
EN 10204 3.1

ÇELİK BORU SANAYİ A.Ş.

HENDEK

Date : 27.04.2011

No : E 11

Customer : THYSSENKRUPP FERROGLOBUS ZRI.
Order No : ST 3432 / FG3-5400049189

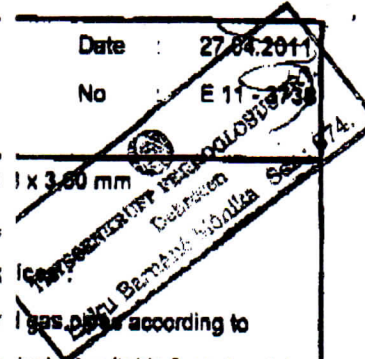
Size : Ø 60 x 3.00 mm

Pieces : 1.406 pcs.
Total Length : 8.436 m.



0408
TA 295 94 90

Description of Goods or Set : Longitudinally welded water and gas pipe according to EN 10255 in grade S195 or equivalent suitable for galvanizing



LEAK TEST

50 Bar / OK

VISUAL AND DIMENSIONAL INSPECTION

% 100 satisfactory

| HEAT NO | TENSILE TESTING | | | CHEMICAL COMPOSITION (%) | | | | |
|----------|----------------------------|----------------------------|----------|--------------------------|-------|-------|-------|-------|
| | Rt (N/mm ²) | Rm (N/mm ²) | A (%) | C | P | | Mn | Si |
| 4487 | 281 | 422 | 32,00 | 0,077 | 0,017 | 0,012 | 0,392 | 0,016 |
| 5478 | 257 | 421 | 29,00 | 0,080 | 0,010 | 0,017 | 0,388 | 0,013 |
| 5487 | 259 | 416 | 31,00 | 0,080 | 0,013 | 0,013 | 0,397 | 0,014 |
| 5564 | 258 | 419 | 29,00 | 0,078 | 0,011 | 0,016 | 0,376 | 0,024 |
| 5593 | 284 | 418 | 26,00 | 0,081 | 0,013 | 0,019 | 0,401 | 0,021 |
| 5693 | 280 | 417 | 32,00 | 0,084 | 0,018 | 0,012 | 0,396 | 0,019 |
| 6604 | 266 | 416 | 29,00 | 0,079 | 0,018 | 0,017 | 0,391 | 0,018 |
| 102249 | 257 | 424 | 29,00 | 0,080 | 0,013 | 0,016 | 0,383 | 0,021 |
| 102604 | 283 | 423 | 35,00 | 0,083 | 0,016 | 0,019 | 0,378 | 0,018 |
| 102655 | 261 | 419 | 27,00 | 0,079 | 0,011 | 0,011 | 0,393 | 0,013 |
| 710876 | 257 | 419 | 33,00 | 0,082 | 0,013 | 0,016 | 0,388 | 0,010 |
| Standard | Min. | 195 | 350 | 20,00 | - | - | - | - |
| | Max. | - | 520 | - | 0,200 | 0,035 | 0,011 | 1,400 |

The material has been manufactured, sampled, tested and inspected in accordance with EN 10255 standard and is been found to meet the requirements.

COPY

NOKSEL
Steel Pipe Inc. Co.

Özgür YAVUŞ
Quality Chief Engineer

5.03-F.04