



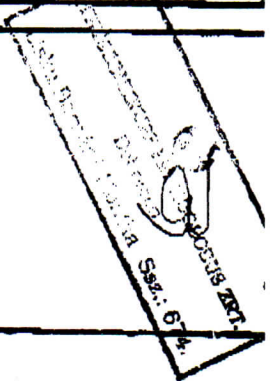
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|---|--|---|-----------------------------------|--|--|
|  NOKSEL ÇELİK BORU SANAYİ A.Ş. HENDEK | | MILL TEST CERTIFICATE EN 10204 3.1 | | Date : 15.07.2010 No : E 10 - 3330 | |
| Customer : THYSSENKRUPP FERROGLOBUS ZRT. Order No : FG3-5400042612 / ST 3006 | | Size : Ø 21,3 x 2,60 mm | | Description of Goods & Services : Longitudinally welded water and gas pipes according to EN 10255 in grade S195 or equivalent suitable for galvanizing | |
| Pieces : 2.439 pcs. Total Length : 14.634 m. | |  <small>0408 TA 285 94 90</small> | | | |
| LEAK TEST | | | VISUAL AND DIMENSIONAL INSPECTION | | |
| 50 Bar / OK | | | % 100 satisfactory | | |

| HEAT NO | TENSILE TESTING | | | CHEMICAL | | COMPOSITION (%) | | | |
|----------|--|--|----------|----------|-------|-----------------|-------|-------|---|
| | R _l (N/mm ²) | R _m (N/mm ²) | A (%) | C | P | S | Mn | Si | |
| 4112 | 257 | 418 | 33,00 | 0,080 | 0,010 | 0,019 | 0,376 | 0,011 | |
| 4178 | 256 | 414 | 28,00 | 0,082 | 0,012 | 0,016 | 0,387 | 0,018 | |
| 4183 | 262 | 418 | 29,00 | 0,077 | 0,015 | 0,018 | 0,383 | 0,010 | |
| 4188 | 257 | 421 | 31,00 | 0,083 | 0,011 | 0,018 | 0,365 | 0,015 | |
| 5129 | 269 | 416 | 33,00 | 0,085 | 0,015 | 0,017 | 0,372 | 0,018 | |
| 5177 | 258 | 422 | 30,00 | 0,077 | 0,012 | 0,015 | 0,377 | 0,012 | |
| 201993 | 260 | 419 | 30,00 | 0,078 | 0,013 | 0,017 | 0,394 | 0,017 | |
| Standard | Min. | 195 | 350 | 20,00 | - | - | - | - | - |
| | Max. | - | 620 | - | 0,200 | 0,035 | 0,030 | 1,400 | - |

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

ORIGINAL



NOKSEL
 Steel Pipe Inc. Co.
 Zgür YAVAS
 Quality Chief Engineer

5.03-F.04