

Characteristics

| Designation in accordance with EN 10027-1 and IC 10 | Designation in accordance with EN 10027-2 | Method of deoxidation | Chemical composition (max) from ladle analysis ²⁾ | | | | Tensile properties ³⁾ | | | | | | Bend test radius ⁴⁾ | Validity of me- chanical prop- erties |
|--|---|--|---|------|-------|-------|----------------------------------|-------------------|-----------------------------------|--|-------------------|--|-----------------------------------|---|
| | | | | | | | R_d , N/mm ² | | R_m max N/mm ² | Minimum elongation after fracture % | | | | |
| | | | % | | | | $1,5 \leq e < 2$ | $2 \leq e \leq 8$ | | $L_0 = 80$ mm | | $L_0 = 5,65 \sqrt{S_0}$ $3 \leq e \leq 8$ | | |
| | | | C | Mn | P | S | | | $1,5 \leq e < 2$ | $2 \leq e < 3$ | $3 \leq e \leq 8$ | | | |
| DD 11 | 1.0332 | At the discretion of the manufacturer | 0,12 | 0,60 | 0,045 | 0,045 | 170 - 360 | 170 - 340 | 440 | 23 | 24 | 28 | 1e | 1 month |
| DD 12 | 1.0398 | Fully killed | 0,10 | 0,45 | 0,035 | 0,035 | 170 - 340 | 170 - 320 | 420 | 25 | 26 | 30 | 0 | 6 months |
| DD 13 | 1.0335 | Fully killed | 0,08 | 0,40 | 0,030 | 0,030 | 170 - 330 | 170 - 310 | 400 | 28 | 29 | 33 | 0 | 6 months |
| DD 14 | 1.0389 | Fully killed | 0,08 | 0,35 | 0,025 | 0,025 | 170 - 310 | 170 - 290 | 380 | 31 | 32 | 36 | 0 | 6 months |

1) The mechanical characteristics relate only to hot rolled non-descaled or chemically descaled and oiled products, skin-passed or not.

2) Unless otherwise agreed at the time of ordering, nitrogen-fixing elements such as titanium and boron may be added at the discretion of the manufacturer.

3) As long as the width of the product permits, the test pieces for the tensile tests shall be taken perpendicular to the direction of rolling.

4) See EURONORM 6 and EURONORM 12.