

| GRADES     |                  | Mechanical properties of stainless steel flat products |                  |                    |                         |          |              |   |                                       |   |                                 |  |    |
|------------|------------------|--|------------------|--------------------|-------------------------|----------|--------------|---|---------------------------------------|---|---------------------------------|--|----|
| EN [N°]    | DESIGNATIONS (V) | AISI/ASTM  | Product Form (1) | Thickness max [mm] | Heat Treatment (5) (13) | Hardness |              | Proof strength R <sub>p0.2</sub> [MPa] (%) (14) (15) (transverse) | Tensile strength R <sub>m</sub> [MPa] | Elongation after fracture                 |                                 | Impact energy (ISO-V) KV UJ min φ>10mm (longitudinal) (transverse) |    |
|            |                  |  |                  |                    |                         | HRB max  | HB or HV max |   |                                       | A <sub>50mm</sub> (%) (2) (tr. and long.) | A (%) (3) (tr. and long.) φ>3mm |  |    |
| AUSTENITIC | 1.4334 (3)       | 317 LN   | C                | 8                  | AT                      | 95 (42)  | 217 (42)     | 290   | from 570 to 770                       | 35  | 35                              | 100  | 60 |
|            |                  |  | H                | 13.5               |                         |          |              | 270   | from 540 to 740                       | 40  | 40                              |  |    |
|            |                  |  | P (4)            | 7.5                |                         |          |              | 270   |                                       |   |                                 |  |    |
|            | 1.4339 (3)       | 317 LNN  | C                | 8                  | AT                      | 96 (42)  | 223 (42)     | 290   | from 590 to 790                       | 35  | 35                              | 100  | 60 |
|            |                  |  | H                | 13.5               |                         |          |              | 270   |                                       | 40  | 40                              |  |    |
|            |                  |  | P (4)            | 7.5                |                         |          |              | 270   |                                       |   |                                 |  |    |
|            | 1.4541 (3)       | 321  | C                | 8                  | AT                      | 80 (19)  |              | 220   | from 520 to 720                       |   |                                 |  |    |
|            |                  |  | H                | 13.5               |                         |          |              | 200   | from 500 to 700                       | 40  | 40                              | 100  | 60 |
|            |                  |  | P (4)            | 7.5                |                         |          |              | 200   |                                       |   |                                 |  |    |
|            | 1.4878 (3)       | 321 H (32)   | C                | 8                  | AT                      | 95 (42)  | 215 (17)     | 190 *   | from 500 to 720                       | 40 (34)                                   | 40                              | 45 (44)  |    |
|            |                  |  | H                | 13.5               |                         |          |              | 200   | from 520 to 720                       | 40  | 40                              |  |    |
|            |                  |  | P (4)            | 7.5                |                         |          |              | 200   | from 500 to 700                       |   |                                 |  |    |
|            | 1.4550 (3)       | 347  | C                | 8                  | AT                      | 85 (19)  |              | 220   | from 520 to 720                       |   |                                 |  |    |
|            |                  |  | H                | 13.5               |                         |          |              | 200   | from 500 to 700                       | 40  | 40                              | 100  | 60 |
|            |                  |  | P (4)            | 7.5                |                         |          |              | 200   |                                       |   |                                 |  |    |
| 1.4335 (3) | 347 H (34)       | C  | 8                | AT                 | 92                      | 201      | 205 *        | min 515   | 40 *                                  |   |                                 |  |    |
|            |                  | H  | 13.5             |                    |                         |          | 200          | from 470 to 670   | 40                                    | 40  | 100                             | 60   |    |
|            |                  | P (4)  | 7.5              |                    |                         |          | 200          | from 540 to 740   | 40                                    | 40  | 100                             | 60   |    |
| 1.4468 (3) | 310 MoLN         | C  | 8                | AT                 | 95 (42)                 | 217 (42) | 250          | from 530 to 730   | 40                                    | 40  | 100                             | 60   |    |
|            |                  | H  | 13.5             |                    |                         |          | 220          | from 500 to 700   | 40                                    | 40  | 100                             | 60   |    |
|            |                  | P (4)  | 7.5              |                    |                         |          | 220          | from 600 to 800   | 40                                    | 40  | 100                             | 60   |    |
| 1.4537 (3) | 904 L            | C  | 8                | AT                 | 90 (14)                 |          | 240          | from 530 to 730   | 35                                    | 35  |                                 |  |    |
|            |                  | H  | 13.5             |                    |                         |          | 220          | from 520 to 720   | 35                                    | 35  | 100                             | 60   |    |
|            |                  | P (4)  | 7.5              |                    |                         |          | 220          | from 650 to 850   | 35                                    | 35  | 100                             | 60   |    |
| 1.4652 (3) | 1.4652 (3)       | C  | 8                | AT                 | 96 (42)                 | 223 (42) | 320          | from 750 to 1000  | 40                                    | 40  | 100                             | 60   |    |
|            |                  | H  | 13.5             |                    |                         |          | 300          | from 800 to 1000  | 40                                    | 40  | 100                             | 60   |    |
|            |                  | P (4)  | 7.5              |                    |                         |          | 300          | from 650 to 850   | 40                                    | 40  | 100                             | 60   |    |
| 1.4659 (3) | 1.4659 (3)       | C  | 8                | AT                 |                         |          | 430          |   |                                       |   |                                 |  |    |
|            |                  | H  | 13.5             |                    |                         |          | 430          |   | 40                                    | 40  | 100                             | 60   |    |
|            |                  | P (4)  | 7.5              |                    |                         |          | 420          |   | 40                                    | 40  | 100                             | 60   |    |
| 1.4529 (3) | 1.4529 (3)       | C  | 6                | AT                 |                         |          | 300          |   |                                       |   |                                 |  |    |
|            |                  | H  | 10               |                    |                         |          | 420          |   | 30                                    | 30  | 120                             | 90   |    |
|            |                  | P (4)  | 40               |                    |                         |          |              |   |                                       |   |                                 |  |    |
| 1.4684 (3) | 330 (35)         | C  | 40               | AT                 |                         |          | 230 *        | from 550 to 750   | 26 (24)                               | 30  | 30 (17)                         |  |    |
|            |                  | H  | 75               |                    |                         |          | 310 *        | from 650 to 850   | 37 (28)                               | 40  |                                 |  |    |
|            |                  | P (4)  | 7.5              |                    |                         |          | 170 *        | from 450 to 650   | 28 (24)                               | 30  | 30 (17)                         |  |    |
| 1.4877 (3) | 1.4877 (3)       | C  | 8                | AT                 | 95 (22)                 | 223 (17) | 180 *        | from 500 to 750   | 30 * (22)                             | 40  |                                 |  |    |
|            |                  | H  | 13.5             |                    |                         |          | 200          | from 600 to 800   | 30 (24)                               | 40  |                                 |  |    |
|            |                  | P (4)  | 7.5              |                    |                         |          | 200          | from 650 to 850   | 40 (24)                               | 40  |                                 |  |    |
| 1.4654 (3) | 1.4654 (3)       | C  | 8                | AT                 | 95 (42)                 | 210 (17) | 300 *        |   |                                       |   |                                 |  |    |
|            |                  | H  | 13.5             |                    |                         |          | 210 (17)     |   |                                       |   |                                 |  |    |
|            |                  | P (4)  | 7.5              |                    |                         |          | 210 (17)     |   |                                       |   |                                 |  |    |