

AUSTENITIC STAINLESS STEELS

| Chemical Analysis % (max. unless noted otherwise) | | | | | | | | | | Nominal Mechanical Properties (Annealed Sheet unless noted otherwise) | | | | | |
|---|-----------|-------------|-------|-----------|-----------|-------------|-------------|-----------|--------------------|--|-----|---------------------------------|-----|---------------------------------------|------------------------|
| Type | C | Mn | P | S | Si | Cr | Ni | Mo | Other | Tensile Strength | | Yield Strength (0.2% offset) | | Elongation in 2" (50.80mm) % | Hardness (Rockwell) |
| | | | | | | | | | | ksi | MPa | ksi | MPa | | |
| 201 | 0.15 | 5.50/7.50 | 0.060 | 0.030 | 1.00 | 16.00/18.00 | 3.50/5.50 | | 0.25N | 95 | 655 | 45 | 310 | 40 | B90 |
| 202 | 0.15 | 7.50/10.00 | 0.060 | 0.030 | 1.00 | 17.00/19.00 | 4.00/6.00 | | 0.25N | 90 | 612 | 45 | 310 | 40 | B90 |
| 205 | 0.12/0.25 | 14.00/15.50 | 0.030 | 0.030 | 0.50 | 16.50/18.00 | 1.00/1.75 | | 0.32/0.40N | 120.5 | 831 | 69 | 476 | 58 | B98 |
| 301 | 0.15 | 2.00 | 0.045 | 0.030 | 1.00 | 16.00/18.00 | 6.00/8.00 | | | 110 | 758 | 40 | 276 | 60 | B85 |
| 302 | 0.15 | 2.00 | 0.045 | 0.030 | 1.00 | 17.00/19.00 | 8.00/10.00 | | | 90 | 612 | 40 | 276 | 50 | B85 |
| 302B | 0.15 | 2.00 | 0.045 | 0.030 | 2.00/3.00 | 17.00/19.00 | 8.00/10.00 | | | 95 | 655 | 40 | 276 | 55 | B85 |
| 303 | 0.15 | 2.00 | 0.020 | 0.150 | 1.00 | 17.00/19.00 | 8.00/10.00 | 0.60* | | 90 | 621 | 35 | 241 | 50 | |
| 303Se | 0.15 | 2.00 | 0.020 | 0.060 | 1.00 | 17.00/19.00 | 8.00/10.00 | | 0.15Se (min) | 90 | 621 | 35 | 241 | 50 | |
| 304 | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 18.00/20.00 | 8.00/10.50 | | | 84 | 579 | 42 | 290 | 55 | B80 |
| 304L | 0.030 | 2.00 | 0.045 | 0.030 | 1.00 | 18.00/20.00 | 8.00/12.00 | | | 81 | 558 | 39 | 269 | 55 | B79 |
| S30430 | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 17.00/19.00 | 8.00/10.00 | | 3.00/4.00Cu | 73 | 503 | 31 | 214 | 70 | B70 |
| 304N | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 18.00/20.00 | 8.00/10.50 | | 0.10/0.16N | 90 | 621 | 48 | 331 | 50 | B85 |
| 305 | 0.12 | 2.00 | 0.045 | 0.030 | 1.00 | 17.00/19.00 | 10.50/13.00 | | | 85 | 586 | 38 | 262 | 50 | B80 |
| 308 | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 19.00/21.00 | 10.00/12.00 | | | 115 | 793 | 80 | 552 | 40 | |
| 309 | 0.20 | 2.00 | 0.045 | 0.030 | 1.00 | 22.00/24.00 | 12.00/15.00 | | | 90 | 621 | 45 | 310 | 45 | B85 |
| 309S | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 22.00/24.00 | 12.00/15.00 | | | 90 | 621 | 45 | 310 | 45 | B85 |
| 310 | 0.25 | 2.00 | 0.045 | 0.030 | 1.50 | 24.00/26.00 | 19.00/22.00 | | | 95 | 655 | 45 | 310 | 45 | B85 |
| 310S | 0.08 | 2.00 | 0.045 | 0.030 | 1.50 | 24.00/26.00 | 19.00/22.00 | | | 95 | 655 | 45 | 310 | 45 | B85 |
| 314 | 0.25 | 2.00 | 0.045 | 0.030 | 1.50/3.00 | 23.00/26.00 | 19.00/22.00 | | | 100 | 689 | 50 | 345 | 40 | B85 |
| 316 | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 16.00/18.00 | 10.00/14.00 | 2.00/3.00 | | 84 | 579 | 42 | 290 | 50 | B79 |
| 316F | 0.08 | 2.00 | 0.020 | 0.10 min. | 1.00 | 16.00/18.00 | 10.00/14.00 | 1.75/2.50 | | 85 | 586 | 38 | 262 | 60 | B85 |
| 316L | 0.030 | 2.00 | 0.045 | 0.030 | 1.00 | 16.00/18.00 | 10.00/14.00 | 2.00/3.00 | | 81 | 558 | 42 | 290 | 50 | B79 |
| 316N | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 16.00/18.00 | 10.00/14.00 | 2.00/3.00 | 0.10/0.16N | 90 | 621 | 48 | 331 | 48 | B85 |
| 317 | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 18.00/20.00 | 11.00/15.00 | 3.00/4.00 | | 90 | 621 | 40 | 276 | 45 | B85 |
| 317L | 0.030 | 2.00 | 0.045 | 0.030 | 1.00 | 18.00/20.00 | 11.00/15.00 | 3.00/4.00 | | 86 | 593 | 38 | 262 | 55 | B85 |
| 317LMN | 0.003 | 2.00 | 0.045 | 0.030 | 0.75 | 17.00/20.00 | 13.50/17.50 | 4.00/5.00 | 0.10/0.20N | 96 | 662 | 54 | 373 | 49 | B88 |
| 321 | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 17.00/19.00 | 9.00/12.00 | | 5xC Ti (min) | 90 | 621 | 35 | 241 | 45 | B80 |
| 329 | 0.10 | 2.00 | 0.040 | 0.030 | 1.00 | 25.00/30.00 | 3.00/6.00 | 1.00/2.00 | | 105 | 724 | 80 | 552 | 25 | 230 (Brinell) |
| 330 | 0.08 | 2.00 | 0.040 | 0.030 | 0.75/1.50 | 17.00/20.00 | 34.00/37.00 | | 0.10Ta 0.20Cb | 80 | 552 | 38 | 262 | 40 | B80 |
| 347 | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 17.00/19.00 | 9.00/13.00 | | 10xC Cb-Ta(min) | 95 | 655 | 40 | 276 | 45 | B85 |
| 348 | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 17.00/19.00 | 9.00/13.00 | | 10xC Cb+Ta(min) | 95 | 655 | 40 | 276 | 45 | B85 |
| 384 | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 15.00/17.00 | 17.00/19.00 | | | 75 | 517 | 35 | 241 | 55 | B70 |
| *May be added at manufacturer's option | | | | | | | | | | | | | | | |

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