

2010 Stainless Steel Grades



| | | NOMINAL CHEMICAL COMPOSITION, WT. PCT.* | | | | OTHER DESIGNATION SYSTEMS | | | | | | | | | | |
|-----------------------------------|--------------------|---|---------------|---------|-----------|---------------------------|-----------|------------|------------|-------------|---------------|---------|------------|-----------|----------------|-----|
| | | Steel Name | ASTM | UNS No. | C | N | Cr | Ni | Mo | Other | EN | DIN | SS | BS | WELDING | |
| General Service and Wet Corrosion | Austenitic | 201 | 201 | S20100 | 0.05 | 0.15 | 17 | 5 | — | Mn | 1.4372 | — | — | 284S16 | — | |
| | | 204 Cu | 204-Cu | S20430 | 0.15 | 0.25 | 15.5-17.5 | 1.5-3.5 | — | Mn, Cu | ~1.4597 | — | — | — | — | — |
| | | XM-19 | S20910 | S20910 | 0.05 | 0.30 | 22 | 13 | 2 | Mn, Cb, V | — | — | — | — | — | P12 |
| | | 301 | 301 | S30100 | 0.10 | 0.04 | 17 | 7 | — | — | 1.4310 | 1.4310 | 2331 | 301S21 | 308 | — |
| | | 302 | 302 | S30200 | 0.07 | 0.06 | 17 | 8 | — | — | 1.4319 | 1.4319 | 2332 | 302S31 | — | — |
| | | 303, 303 HST | 303 | S30300 | 0.06 | 0.05 | 17.5 | 8.1 | — | S | 1.4305 | 1.4305 | 2346 | 303S31 | — | — |
| | | 304 | 304 | S30400 | 0.04 | 0.06 | 18.2 | 8.1 | — | — | 1.4301 | 1.4301 | 2333 | 304S31 | 308 | — |
| | | 304L | 304L | S30403 | 0.02 | 0.06 | 18.2 | 8.2 | — | — | 1.4306 | 1.4306 | 2352 | 304S11 | 308L | — |
| | | 304LN | 304LN | S30453 | 0.02 | 0.14 | 18.2 | 8.5 | — | — | 1.4311 | 1.4311 | 2371 | 304S61 | 308L, 2304 | — |
| | | 305 | 305 | S30500 | 0.02 | 0.02 | 18 | 11.5 | — | — | 1.4303 | 1.4303 | — | 305S19 | 309L, 312 | — |
| | | 307 | AWS ER 307 | — | 0.08 | 0.05 | 19 | 8.5 | — | Mn | 1.4370 | 1.4370 | — | G18 8Mn | — | — |
| | | 308 | S30880 | S30880 | 0.08 | — | 19.5-22.0 | 9.0-11.0 | 0.75 | 0.30-0.65Si | 1.4303 | 1.4303 | — | — | — | — |
| | | 308L | 308L | S30883 | 0.02 | 0.05 | 20 | 11 | — | — | 19 9 L | — | — | — | — | NA |
| | | 308LSi | S30880 | S30880 | 0.03 | — | 19.5-22.0 | 9.0-11.0 | 0.50 | 0.65-1.00Si | 19 9 LSi | — | — | — | — | NA |
| | | 316 | 316 | S31600 | 0.04 | 0.04 | 16.8 | 10.7 | 2 | — | 1.4401 | 1.4401 | 2347 | 316S31 | 316L | — |
| | | 316 | 316 | S31600 | 0.04 | 0.06 | 17 | 11 | 2.8 | — | 1.4436 | 1.4436 | 2343 | 316S33 | 316L | — |
| | | 316H | S31609 | S31609 | 0.04-0.10 | — | 16.0-18.0 | 10.0-14.0 | 2.0-3.0 | — | 1.4401/1.4919 | — | — | — | — | — |
| | | 316L | 316L | S31603 | 0.02 | 0.06 | 16.2 | 10.2 | 2 | — | 1.4404 | 1.4404 | 2348 | 316S11 | 316L | — |
| | | 316L | 316L | S31603 | 0.02 | 0.06 | 16.2 | 10.2 | 2.8 | — | 1.4432 | 1.4432 | 2353 | 316S13 | 316L | — |
| | | 316LN | 316LN | S31653 | 0.02 | 0.14 | 16.2 | 10.2 | 2 | — | 1.4406 | 1.4406 | — | 316S61 | 316L | — |
| | | 316Ti | 316Ti | S31635 | 0.04 | 0.01 | 17 | 11 | 2 | Ti | 1.4571 | 1.4571 | 2350 | 320S31 | 318, 316L | — |
| | | 317L | 317L | S31703 | 0.02 | 0.08 | 18.3 | 11.5 | 3 | — | 1.4438 | 1.4438 | 2367 | 317S12 | 317L | — |
| | | 317LMN | 317LMN | S31726 | 0.02 | 0.14 | 19.3 | 13.7 | 4.3 | — | 1.4439 | 1.4439 | — | — | — | P12 |
| | | 330 | 330 | N08330 | 0.08 | — | 17-20 | 34-37 | — | Cu | 1.4864 | 1.4864 | — | NA 17 | — | — |
| | 321 | 321 | S32100 | 0.04 | 0.01 | 17.3 | 9.2 | — | Ti | 1.4541 | 1.4541 | 2337 | 321S31 | 347 | — | |
| | 347 | 347 | S34700 | 0.04 | 0.04 | 17.3 | 9.1 | — | Cb | 1.4550 | — | 2338 | 347S31 | 347 | — | |
| | Alloy 20 | N08020 | N08020 | 0.01 | 0.06 | 20 | 33 | 2 | Cu, Cb, Nb | — | — | — | — | — | 320/320LR | |
| | 904L | 904L | N08904 | 0.01 | 0.06 | 20 | 25 | 4.5 | Cu | 1.4539 | 1.4539 | 2562 | 904S13 | P12, 904L | — | |
| | 254 SMO | S31254 | S31254 | 0.01 | 0.20 | 20 | 18 | 6.1 | Cu | 1.4547 | — | 2378 | — | — | P12, P16 | |
| | Outokumpu 4565 | S34565 | S34565 | 0.02 | 0.45 | 24 | 17 | 4.5 | Mn | 1.4565 | 1.4565 | — | — | — | P16 | |
| | LDX 2101 | S32101 | S32101 | 0.03 | 0.22 | 21.5 | 1.5 | 0.3 | Mn | 1.4162 | — | — | — | — | LDX 2101, 2209 | |
| | Outokumpu 2304 | 2304 | S32304 | 0.02 | 0.10 | 23 | 4.8 | 0.3 | — | 1.4362 | 1.4362 | 2327 | — | — | 2209, 2304 | |
| | 2205 Code Plus Two | 2205 | S32205/S31803 | 0.02 | 0.17 | 22 | 5.5 | 3 | — | 1.4462 | 1.4462 | 2377 | 318S13 | — | 2209 | |
| | Outokumpu 2507 | 2507 | S32750 | 0.02 | 0.27 | 25 | 7 | 4 | — | 1.4410 | — | 2328 | — | — | P100 | |
| 410 | 410 | S41000 | 0.12 | — | 12 | — | — | — | 1.4006 | 1.4006 | 2302 | 410S21 | 410, 309L | — | | |
| 41003 | — | S41003 | 0.03 | 0.03 | 10.5-12.5 | 1.5 | — | — | 1.4003 | — | — | — | — | 309 | | |
| 410S | 410S | S41008 | 0.06 | — | 12 | — | — | — | 1.4000 | 1.4000 | 2301 | 403S17 | 410, 309L | — | | |
| 416 | 416 | S41600 | 0.12 | — | 12 | — | — | S | 1.4005 | 1.4005 | 2380 | 416S21 | — | — | | |
| 430 | 430 | S43000 | 0.04 | — | 16.5 | — | — | — | 1.4016 | 1.4016 | 2320 | 430S17 | 308L, 309L | — | | |
| 430F | S43020 | S43020 | 0.12 max | — | 16.0-18.0 | — | — | 0.15min | 1.4104 | 1.4104 | 2383 | — | — | — | | |
| 15-5 | XM-12 | S15500 | 0.07 | — | 14-15.5 | 3.5-5.5 | — | Cu, Cb, Ta | — | — | — | — | — | — | | |
| 434 | 434 | S43400 | 0.06 | — | 17 | — | 1 | — | 1.4113 | — | — | — | — | 312 | | |
| 441 | 441 | S44100 | 0.012 | — | 18 | — | — | Nb, Ti | 1.4509 | 1.4509 | — | — | — | 441 | | |
| 444 | 444 | S44400 | 0.02 | 0.02 | 17.8 | — | 2.1 | Ti | 1.4521 | 1.4521 | 2326 | — | — | 444 | | |
| 17-4 | 630 | S17400 | 0.04 | — | 15.3 | 4.8 | — | Cu, Cb, Nb | 1.4542 | 1.4542 | — | — | — | 630, 309L | | |
| 17-7 | 631 | S17700 | 0.05 | — | 16.3 | 7.0 | — | Al | 1.4568 | 1.4568 | 2388 | — | — | — | | |
| N60 | — | S21800 | 0.10 | 0.18 | 16-18 | 8-9 | — | Mn | — | — | — | — | — | — | | |
| XM-25 | XM-25 | S45000 | 0.05 | — | 14-16 | 5-7 | 0.5-1 | Cu, Cb | — | — | — | — | — | — | | |
| 304H | 304H | S30409 | 0.05 | 0.06 | 18.2 | 8.1 | — | — | 1.4948 | 1.4948 | 2333 | 304S51 | 308H | — | | |
| 321H | 321H | S32109 | 0.05 | 0.01 | 17.3 | 9.2 | — | Ti | 1.4878 | 1.4878 | 2337 | 321S51 | 347H | — | | |
| 347H | S34709 | S34709 | 0.04-0.10 | — | 17.0-20.0 | 9.0-13.0 | — | Cb, Nb | 1.4961 | 1.4961 | 2347 | 316 Sxx | — | — | | |
| 309H | S30909 | S30909 | 0.04-0.10 | — | 22.0-24.0 | 12.0-16.0 | — | — | — | — | — | — | — | — | | |
| 309S | 309S | S30908 | 0.06 | 0.08 | 22.2 | 12.2 | — | — | 1.4833 | 1.4833 | — | 309S16 | 309 | — | | |
| 310H | S31009 | S31009 | 0.04-0.10 | — | 24.0-26.0 | 19.0-22.0 | — | — | — | — | — | — | — | — | | |
| 310S | 310S | S31008 | 0.05 | 0.06 | 25.2 | 19.2 | — | — | 1.4845 | 1.4845 | 2361 | 310S16 | 310 | — | | |
| 253 MA | S30815 | S30815 | 0.09 | 0.17 | 21 | 11 | — | Si, Ce | 1.4835 | — | 2368 | — | — | 253 MA | | |

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