

| Classification | Grade | Similar grade | | | Chemical composition | | | | | | | | | | | Applications | | |
|-------------------------|-----------|---------------|--------------------------------------|--------------------------------------|----------------------|------|--------------|-------|---------------|---------------|---------------|-------------|-------------|-------------|----------------|---------------|--|---|
| | | AISI | DIN | EN | C | Si | Mn | P | S | Ni | Cr | Mo | Cu | N | Others | | | |
| Martensitic | SUS403 | 403 | | | 0.15 | 0.50 | 1.00 | 0.040 | 0.030 | (0.60) | 11.50 ~ 13.00 | | | | | | Turbine blade, compressor, valve parts | |
| | SUS410 | 410 | X10Cr13 | X12Cr13 | 0.15 | 1.00 | 1.00 | 0.040 | 0.030 | (0.60) | 11.50 ~ 13.50 | | | | | | Machinery parts, pump shaft | |
| | SUS410J1 | | | | 0.08 ~ 0.18 | 0.60 | 1.00 | 0.040 | 0.030 | (0.60) | 11.50 ~ 14.00 | 0.30 ~ 0.60 | | | | | Turbine blade, machinery parts for high temperature | |
| | SUS410F2 | | | | 0.15 | 1.00 | 1.00 | 0.040 | 0.030 | (0.60) | 11.50 ~ 13.50 | | | | Pb0.05 ~ 0.30 | | - | |
| | SUS416 | 416 | | X12CrS13 | 0.15 | 1.00 | 1.25 | 0.060 | 0.15 | (0.60) | 12.00 ~ 14.00 | (0.60) | | | | | Screw, bolt, nut | |
| | SUS420J1 | 420 | X20Cr13 | X20Cr13 | 0.16 ~ 0.25 | 1.00 | 1.00 | 0.040 | 0.030 | (0.60) | 12.00 ~ 14.00 | | | | | | Motor shaft, machinery parts | |
| | SUS420J2 | | X20Cr13 | X30Cr13 | 0.26 ~ 0.40 | 1.00 | 1.00 | 0.040 | 0.030 | (0.60) | 12.00 ~ 14.00 | | | | | | Valve parts, knives, shaft, machining tool parts | |
| | SUS420F | | | | 0.26 ~ 0.40 | 1.00 | 1.25 | 0.060 | 0.15 | (0.60) | 12.00 ~ 14.00 | (0.60) | | | | | - | |
| | SUS420F2 | | | | 0.26 ~ 0.40 | 1.00 | 1.00 | 0.040 | 0.030 | (0.60) | 12.00 ~ 14.00 | | | | Pb0.05 ~ 0.30 | | High strength machinery parts | |
| | SUS431 | 431 | X20CrNi17 2 | X19CrNi17-2 | 0.20 | 1.00 | 1.00 | 0.040 | 0.030 | 1.25 ~ 2.50 | 15.00 ~ 17.00 | | | | | | Nozzle, bearing | |
| | SUS440A | 440A | | X70CrMo15 | 0.60 ~ 0.75 | 1.00 | 1.00 | 0.040 | 0.030 | (0.60) | 16.00 ~ 18.00 | (0.75) | | | | | Knives, valve | |
| | SUS440B | 440B | | | 0.75 ~ 0.95 | 1.00 | 1.00 | 0.040 | 0.030 | (0.60) | 16.00 ~ 18.00 | (0.75) | | | | | Corrosion and heat resistant bearing, knives | |
| SUS440C | 440C | | X105CrMo17 | 0.95 ~ 1.20 | 1.00 | 1.00 | 0.040 | 0.030 | (0.60) | 16.00 ~ 18.00 | (0.75) | | | | | Bearing | | |
| SUS440F | 440F | | | 0.95 ~ 1.20 | 1.00 | 1.25 | 0.060 | 0.15 | (0.60) | 16.00 ~ 18.00 | (0.75) | | | | | - | | |
| Ferritic | SUS405 | 405 | X6CrAl13 | X6CrAl13 | 0.08 | 1.00 | 1.00 | 0.040 | 0.030 | | 11.50 ~ 14.50 | | | | Al0.10 ~ 0.30 | | Turbine nozzle, welding parts, cast parts | |
| | SUS410L | | | | 0.030 | 1.00 | 1.00 | 0.040 | 0.030 | | 11.00 ~ 13.50 | | | | | | Burner parts | |
| | SUS430 | 430 | X6Cr17 | X6Cr17 | 0.12 | 0.75 | 1.00 | 0.040 | 0.030 | | 16.00 ~ 18.00 | | | | | | Kitchen, commodity, oxidation resistant parts below 900 | |
| | SUS430F | 430F | X7CrMoS18 | X6CrMoS17 | 0.12 | 1.00 | 1.25 | 0.060 | 0.15 | | 16.00 ~ 18.00 | (0.60) | | | | | Bolt, nut | |
| | SUS434 | 434 | X6CrMo17 1 | X6CrMo17-1 | 0.12 | 1.00 | 1.00 | 0.040 | 0.030 | | 16.00 ~ 18.00 | 0.75 ~ 1.25 | | | | | Automobile exterior equipment | |
| | SUS447J1 | | | | 0.010 | 0.40 | 0.40 | 0.030 | 0.020 | (0.50) | 28.50 ~ 32.00 | 1.50 ~ 2.50 | (0.20) | 0.015 | (Ni+Cu) (0.50) | | | Pollution protection equipment |
| | SUSXM27 | | | | 0.010 | 0.40 | 0.40 | 0.030 | 0.020 | (0.50) | 25.00 ~ 27.50 | 0.75 ~ 1.50 | (0.20) | 0.015 | (Ni+Cu) (0.50) | | | Pollution protection equipment |
| Austenitic | SUS201 | 201 | | X12CrMnNiN17-7-5 | 0.15 | 1.00 | 5.50 ~ 7.50 | 0.060 | 0.030 | 3.50 ~ 5.50 | 16.00 ~ 18.00 | | | | 0.25 | | Alternative grade of SUS301 | |
| | SUS202 | 202 | | X12CrMnNiN18-9-5 | 0.15 | 1.00 | 7.50 ~ 10.00 | 0.060 | 0.030 | 4.00 ~ 6.00 | 17.00 ~ 19.00 | | | | 0.25 | | Alternative grade of SUS302 | |
| | SUS301 | 301 | X12CrNi17 7 | | 0.15 | 1.00 | 2.00 | 0.045 | 0.030 | 6.00 ~ 8.00 | 16.00 ~ 18.00 | | | | | | Spring, shaft | |
| | SUS302 | 302 | | | 0.15 | 1.00 | 2.00 | 0.045 | 0.030 | 8.00 ~ 10.00 | 17.00 ~ 19.00 | | | | | | General corrosion resistance construction material, equipment parts | |
| | SUS303 | 303 | X10CrNiS18 9 | X8CrNiS18-9 | 0.15 | 1.00 | 2.00 | 0.20 | 0.15 | 8.00 ~ 10.00 | 17.00 ~ 19.00 | | | | | | Automatic machined parts such as screw, bolt | |
| | SUS303Se | 303Se | | | 0.15 | 1.00 | 2.00 | 0.20 | 0.060 | 8.00 ~ 10.00 | 17.00 ~ 19.00 | | | | Se 0.15 | | Screw | |
| | SUS303Cu | | | | 0.15 | 1.00 | 3.00 | 0.20 | 0.15 | 8.00 ~ 10.00 | 17.00 ~ 19.00 | | 1.50 ~ 3.50 | | | | Shaft | |
| | SUS304 | 304 | X5CrNi18 10 | X4CrNi18-10 | 0.08 | 1.00 | 2.00 | 0.045 | 0.030 | 8.00 ~ 10.50 | 18.00 ~ 20.00 | | | | | | General corrosion resistance, food processing, equipment parts | |
| | SUS304L | 304L | X2CrNi19 11 | X2CrNi19-11 | 0.030 | 1.00 | 2.00 | 0.045 | 0.030 | 9.00 ~ 13.00 | 18.00 ~ 20.00 | | | | | | To avoid intergranular corrosion (e.g. welding by SUS304) | |
| | SUS304N1 | 304N | | | 0.08 | 1.00 | 2.50 | 0.045 | 0.030 | 7.50 ~ 10.50 | 18.00 ~ 20.00 | | | 0.10 ~ 0.25 | | | Structural parts for higher strength | |
| | SUS304N2 | | | | 0.08 | 1.00 | 2.50 | 0.045 | 0.030 | 7.50 ~ 10.50 | 18.00 ~ 20.00 | | | 0.15 ~ 0.30 | Nb 0.15 | | Valve, pump | |
| | SUS304LN | 304LN | X2CrNiN18 10 | X2CrNiN18-10 | 0.030 | 1.00 | 2.00 | 0.045 | 0.030 | 8.50 ~ 11.50 | 17.00 ~ 19.00 | | | 0.12 ~ 0.22 | | | SUS304L with higher strength | |
| | SUS304J3 | S30431 | | | 0.08 | 1.00 | 2.00 | 0.045 | 0.030 | 8.00 ~ 10.50 | 17.00 ~ 19.00 | | 1.00 ~ 3.00 | | | | Cold heading | |
| | SUS305 | 305 | X5CrNi18 12 | X4CrNi18-12 | 0.12 | 1.00 | 2.00 | 0.045 | 0.030 | 10.50 ~ 13.00 | 17.00 ~ 19.00 | | | | | | Cold heading | |
| | SUS309S | 309S | | | 0.08 | 1.00 | 2.00 | 0.045 | 0.030 | 12.00 ~ 15.00 | 22.00 ~ 24.00 | | | | | | Superior corrosion and oxidation resistance to 304. Parts for chemical plant, heat treatment, furnace | |
| | SUS310S | 310S | | X6CrNi25-20 | 0.08 | 1.50 | 2.00 | 0.045 | 0.030 | 19.00 ~ 22.00 | 24.00 ~ 26.00 | | | | | | Superior corrosion and heat resistance to SUS309S. Parts for thermal exchanger and furnace. | |
| | SUS312L | | | | 0.020 | 0.80 | 1.00 | 0.030 | 0.015 | 17.50 ~ 19.50 | 19.00 ~ 21.00 | 6.00 ~ 7.00 | 0.50 ~ 1.00 | 0.16 ~ 0.25 | | | | |
| | SUS316 | 316 | X5CrNiMo17 12 2 X5CrNiMo17 13 3 | X4CrNiMo17-12-2 X4CrNiMo17-13-3 | 0.08 | 1.00 | 2.00 | 0.045 | 0.030 | 10.00 ~ 14.00 | 16.00 ~ 18.00 | 2.00 ~ 3.00 | | | | | | Chemical plant equipment(paper, soap, chemical textile, fertilizer) |
| | SUS316L | 316L | X2CrNiMo17 13 2 X2CrNiMo17 14 3 | X2CrNiMo17-12-2 X2CrNiMo17-13-3 | 0.030 | 1.00 | 2.00 | 0.045 | 0.030 | 12.00 ~ 15.00 | 16.00 ~ 18.00 | 2.00 ~ 3.00 | | | | | | To avoid intergranular corrosion of SUS316 |
| | SUS316N | 316N | | | 0.08 | 1.00 | 2.00 | 0.045 | 0.030 | 10.00 ~ 14.00 | 16.00 ~ 18.00 | 2.00 ~ 3.00 | | 0.10 ~ 0.22 | | | | SUS316 with higher strength |
| | SUS316LN | 316LN | X2CrNiMoN17 12 2 X2CrNiMoN17 13 3 | X2CrNiMoN17-11-2 X2CrNiMoN17-13-3 | 0.030 | 1.00 | 2.00 | 0.045 | 0.030 | 10.50 ~ 14.50 | 16.50 ~ 18.50 | 2.00 ~ 3.00 | | 0.12 ~ 0.22 | | | | SUS316 with higher strength |
| | SUS316Ti | | X6CrNiMoTi17 12 2 | X6CrNiMoTi17-12-2 | 0.08 | 1.00 | 2.00 | 0.045 | 0.030 | 10.00 ~ 14.00 | 16.00 ~ 18.00 | 2.00 ~ 3.00 | | | | Ti 5 × C% | | SUS316 with higher intergranular corrosion resistance |
| | SUS316J1 | | | | 0.08 | 1.00 | 2.00 | 0.045 | 0.030 | 10.00 ~ 14.00 | 17.00 ~ 19.00 | 1.20 ~ 2.75 | 1.00 ~ 2.50 | | | | | Chemical plant equipment (corrosion resistance plate or tube) |
| | SUS316J1L | | | | 0.030 | 1.00 | 2.00 | 0.045 | 0.030 | 12.00 ~ 16.00 | 17.00 ~ 19.00 | 1.20 ~ 2.75 | 1.00 ~ 2.50 | | | | | To avoid intergranular corrosion of SUS316J1 |
| | SUS316F | | | | 0.08 | 1.00 | 2.00 | 0.045 | 0.10 | 10.00 ~ 14.00 | 16.00 ~ 18.00 | 2.00 ~ 3.00 | | | | | | Watchband |
| | SUS317 | 317 | | | 0.08 | 1.00 | 2.00 | 0.045 | 0.030 | 11.00 ~ 15.00 | 18.00 ~ 20.00 | 3.00 ~ 4.00 | | | | | | Environment which requires corrosion resistance (e.g. dyeing machine) |
| | SUS317L | 317L | X2CrNiMo18 16 4 | X2CrNiMo18-15-4 | 0.030 | 1.00 | 2.00 | 0.045 | 0.030 | 11.00 ~ 15.00 | 18.00 ~ 20.00 | 3.00 ~ 4.00 | | | | | | Improved intergranular corrosion resistance of SUS317 |
| | SUS317LN | | | | 0.030 | 1.00 | 2.00 | 0.045 | 0.030 | 11.00 ~ 15.00 | 18.00 ~ 20.00 | 3.00 ~ 4.00 | | 0.10 ~ 0.22 | | | | SUS317L with higher strength |
| | SUS317J1 | | | | 0.040 | 1.00 | 2.50 | 0.045 | 0.030 | 15.00 ~ 17.00 | 16.00 ~ 19.00 | 4.00 ~ 6.00 | | | | | | Thermal exchanger including chlorine ion |
| | SUS836L | | | | 0.030 | 1.00 | 2.00 | 0.045 | 0.030 | 24.00 ~ 26.00 | 19.00 ~ 24.00 | 5.00 ~ 7.00 | | 0.25 | | | | Seawater resistance stainless steel |
| SUS890L | | | | 0.020 | 1.00 | 2.00 | 0.045 | 0.030 | 23.00 ~ 28.00 | 19.00 ~ 23.00 | 4.00 ~ 5.00 | 1.00 ~ 2.00 | | | | | Seawater resistance stainless steel | |
| SUS321 | 321 | X6CrNiTi18 10 | X6CrNiTi18-10 | 0.08 | 1.00 | 2.00 | 0.045 | 0.030 | 9.00 ~ 13.00 | 17.00 ~ 19.00 | | | | | Ti 5 × C% | | Parts which are unable to be heat treated after welding. Equipment parts used between 730 ~ 900 thermal condition. | |
| SUS347 | 347 | X6CrNiNb18 10 | X6CrNiNb18-10 | 0.08 | 1.00 | 2.00 | 0.045 | 0.030 | 9.00 ~ 13.00 | 17.00 ~ 19.00 | | | | | Nb 10 × C% | | Superior intergranular corrosion resistance | |
| SUSXM15J1 | | | X1CrNiSi18-15-4 | 0.08 | 3.00 ~ 5.00 | 2.00 | 0.045 | 0.030 | 11.50 ~ 15.00 | 15.00 ~ 20.00 | | | | | | | Environment which includes chlorine ion | |
| Precipitation hardening | SUS630 | S17400 | | X5CrNiCuNb16-4 | 0.07 | 1.00 | 1.00 | 0.040 | 0.030 | 3.00 ~ 5.00 | 15.00 ~ 17.50 | | 3.00 ~ 5.00 | | | Nb0.15 ~ 0.45 | - | |
| | SUS631 | S17700 | X7CrNiAl17 7 | X7CrNiAl17-7 | 0.09 | 1.00 | 1.00 | 0.040 | 0.030 | 6.50 ~ 7.75 | 16.00 ~ 18.00 | | | | | Al0.75 ~ 1.50 | - | |
| Austenitic, ferritic | SUS329J1 | 329 | | | 0.08 | 1.00 | 1.50 | 0.040 | 0.030 | 3.00 ~ 6.00 | 23.00 ~ 28.00 | 1.00 ~ 3.00 | | | | | Seawater pump | |
| | SUS329J3L | S31803 | | X2CrNiMoN22-5-3 | 0.030 | 1.00 | 2.00 | 0.040 | 0.030 | 4.50 ~ 6.50 | 21.00 ~ 24.00 | 2.50 ~ 3.50 | | 0.08 ~ 0.20 | | | Stirring shaft | |
| | SUS329J4L | | | X2CrNiMoCuN25-6-3 | 0.030 | 1.00 | 1.50 | 0.040 | 0.030 | 5.50 ~ 7.50 | 24.00 ~ 26.00 | 2.50 ~ 3.50 | | 0.08 ~ 0.30 | | | Stirring shaft | |

Alloys can be added other than in the left rows as necessary.