



STAINLESS, CARBON, ALLOY & SPECIALTY METALS MATERIAL COMPATIBILITY CHART

| MATERIAL | UNS | GRADE | CONFIGURATIONS | | | | | | | | | |
|-----------------------------|------------------------------|-------------------------------|--------------------------|--|----------|------------------|-----------------------|-----------------|----------|--------------|----------|--------------|
| | | | PIPE | TUBE | FITTINGS | FLANGES FORGINGS | PLATE | BAR | | | | |
| Chrome Alloy | K11522 | P1/WP1/F1 | A/SA 335 | | | | | | | | | |
| | K41545 | P5/T5/WP5/F5/GR 5 | | | | | | | | | | |
| | S50400 K90941 | P9/T9/WP9/F9/GR 9 | A/SA 335 691 | A/SA 213 | A/SA 234 | A/SA 182 | A/SA 387 | A/SA 336 | | | | |
| | K11597 | P11/T11/WP11/GR 11 | | | | | | | | | | |
| | K21590 | P22/T22/WP22/F22/GR 22 | | | | | | | | | | |
| | K91560 K90901 | P91/T91/WP91/F91/GR 91 | | | | | | | | | | |
| Stainless High Temp | S30900 S30908 S30909 | TP309S/H,WP309,F309H | A/SA 312 | A/SA 213/249 | A/SA 403 | A/SA 182 | A/SA 240 A167 | A/SA 276/479 | | | | |
| | S31000 S31008 S31009 | TP309S/H,WP310H,F310/H | | | | | | | | | | |
| | Stainless Austenitic | S31254 | S31254/WP31254/F44 | A/SA 312/376 | | | A/SA 213 249 A269 | | A/SA 403 | A/SA 182 | A/SA 240 | A/SA 276/479 |
| | | S30400 | TP304/WP304/F304/TYPE304 | | | | | | | | | |
| S30403 | | TP304L/WP304L/F304L | | | | | | | | | | |
| S31600 | | TP316,WP316,F316,TYPE316 | | | | | | | | | | |
| S31603 | | TP316L,WP316L,F316L,TYPE316L | | | | | | | | | | |
| S31700 | | TP317,WP317,F317,TYPE317 | | | | | | | | | | |
| S31703 | | TP317L,WP317L,F317L,TYPE317L | | | | | | | | | | |
| S32100 | | TP321,WP321,F321,TYPE321 | A/SA 213/249 | | | | | | | | | |
| S34700 | | TP347,WP347,F347,TYPE347 | | | | | | | | | | |
| S30409 | | TP304H,WP304H,F304H,TYPE304H | | | | | | | | | | |
| S31609 | | TP316H,WP316H,F316H,TYPE316H | | | | | | | | | | |
| S31725 | | S31725,WP31725,TYPE317LM | | | | | | | | | | |
| S32109 | | TP321H,WP321H,F321H,TYPE321H | | | | | | | | | | |
| S34709 | TP347H,WP347H,F347H,TYPE347H | | | | | | | | | | | |
| S31254 | S31254/WP31254/F44 | | | | | | | | | | | |
| Duplex | S32205 | TP32205,WP32205,F60,TYPE 2205 | A/SA 790 | A/SA 789 | A/SA 815 | A/SA 462 | A/SA 240 B/ SB 463 | B/SA 473 | | | | |
| Stainless Martensitic | S41000 | TP410,WP410,F6a | | A/SA 268 | | | | | | | | |
| Alloy Carpenter 20 | N08020 | | B/SB 464/729 | B/SB 468/729 | B/SB 462 | B/SB 462 | A/SA 240 B/ SB 463 | B/SB 473 | | | | |
| Carbon Steel | | GRADE A | A/SA 53/106/672 | A/SA 178 A500 | A/SA 234 | A/SA 105 | A/SA 36/285 | A/SA 29 A108 | | | | |
| | | GRADE B | | A 500 | | | | | | | | |
| | | GRADE C | | A/SA 178/210 A 500 | | | | | | | | |
| Low Temp | | GRADE 1,WPL6,LF1 | A/SA 333/671 | A/SA 192/334 | A/SA 420 | A/SA 350 | A/SA 36 | A/SA 29 A108 | | | | |
| | | GRADE 3,WP9,LF3 | | | | | | | | | | |
| | | GRADE 6,WPL3,LF6 | | | | | | | | | | |
| AL6XN N08367 | N08367 | | B/SB 675/690 | B/SB 676 | B/SB 462 | B/SB 462 | B/SB 688 | B/SB 691 | | | | |
| Monel 400 N04400 | N04400 | | B/SB 165 | B/SB 163/165 | B/SB 366 | B/SB 564 | B/SB 127 | B/SB 164 | | | | |
| Inconel 600 N06600 | N06600 | B/SB 167 | B/SB 163/165/167 | B/SB 168 | | | B/SB 166 | | | | | |
| Inconel 625 N06625 | N06625 | B/SB 444/704 | B/SB 444/705 | B/SB 443 | | | B/SB 446 | | | | | |
| Incoloy | N08800 | Alloy 800 | B/SB 407 | B/SB 163/165 | | | B/SB 366 | B/SB 564 | B/SB 168 | A/SA 276/479 | | |
| | N08810 | Alloy 800H | | | B/SB 409 | | | | | | | |
| | N08811 | Alloy 800HT | | | | | | | | | | |
| Hastelloy | N10276 | C276 | B/SB 619/622 | B/SB 622/626 | | B/SB 564 | B/SB 575 | B/SB 574 | | | | |
| Titanium | | | B/SB 861/862 | B/SB 338 | | | B/SB 265 | B/SB 348 | | | | |
| Boiler/Heat Exchanger Tubes | | | | A/SA 179/182/192 A519 (LOW) CARBON STEEL | | | | | | | | |
| A1 | | | | A/SA 210 GRADE A-1 | | | | | | | | |
| Mechanical Stainless Tubing | | | | A 511/554 | | | | | | | | |