

Yield Strength

Average Short-Time 0.2% Offset Yield Strength, ksi

| Alloy | Temperature, °F | | | | | | | | | | | | | |
|------------------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | RT | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 1900 | 2000 | 2100 | 2200 |
| 446 | 49.7 | 45 | 40.7 | 39.7 | 45 | 42.3 | 12 | 4.0 | - | - | - | - | - | - |
| 304L | 33.8 | 28.7 | 23.6 | 21 | 19.6 | 17.9 | 15.2 | - | - | - | - | - | - | - |
| 316L | 33.7 | 28.6 | 23.6 | 20.6 | 18.5 | 16.8 | 14.1 | - | - | - | - | - | - | - |
| 321 | 38 | - | 20.5 | 18 | 17 | 16.5 | 16 | 14 | - | - | - | - | - | - |
| 347, 347H | 38.2 | 35.1 | 30.6 | 27.5 | 26 | 25.6 | 24.8 | 20.6 | - | - | - | - | - | - |
| RA 253 MA [®] | 50.8 | 39.5 | 32 | 29 | 28 | 25 | 24 | 22 | 14 | 7.0 | 5.5 | 4.0 | 3.0 | 2.0 |
| 309 | 42 | - | 35 | - | 30 | 24 | 22 | 20 | 18.0 | 8.5 | - | - | - | - |
| RA 602 CA [®] | 50.5 | - | - | - | 39.2 | 38.3 | 37.7 | 36.5 | 28.7 | 15.2 | 12.2 | 11.6 | 9.0 | 5.0 |
| 310 | 35.1 | 32.5 | 28.3 | 26.3 | 24.3 | 20.8 | 20.7 | 19.3 | 12.2 | 6.4 | - | - | - | - |
| RA330 [®] | 37.2 | 35.6 | 31.6 | 29.6 | 27.8 | 25 | 22 | 20.7 | 15.4 | 8.5 | - | - | - | - |
| RA333 [®] | 47 | 41.6 | 37 | 32.5 | 31.5 | 30.8 | 30.7 | 28.9 | 23.9 | 12.1 | - | - | - | 2 |
| 625 | 84 | - | 66 | 63 | 61 | 60.5 | 60 | 58.5 | 39.0 | 17.0 | - | 6.5 | 5.0 | 3.5 |
| 601 | 54 | - | - | - | - | 48 | 41 | 26 | 15 | - | - | - | - | - |
| 718 | 175 | 170 | 163 | 159 | 156 | 155 | 149 | 110 | - | - | - | - | - | - |
| 600 | 37 | - | - | - | - | 28.5 | 26.5 | 17 | 9.0 | 4.0 | - | - | - | - |
| Alloy X | 55 | - | - | - | - | 36 | 35 | 34 | 28 | - | - | - | - | - |