

Sandvik Surcharge Calculation

One Month Prior Element Average

(\$/lb.)

| | 5/16/17 - 6/15/17 | 6/16/17 - 7/15/17 | 7/16/17 - 8/15/17 | 8/16/17 - 9/15/17 | 9/16/17 - 10/15/17 | 10/16/17 - 11/15/17 |
|-----------|----------------------|----------------------|----------------------|----------------------|-----------------------|------------------------|
| Cr | \$1.540 | \$1.100 | \$1.100 | \$1.100 | \$1.245 | \$1.390 |
| Ni | \$4.06 | \$4.12 | \$4.59 | \$5.22 | \$4.88 | \$5.48 |
| Mo | \$8.82 | \$8.81 | \$8.87 | \$9.49 | \$9.50 | \$9.47 |
| Fe | \$0.113 | \$0.124 | \$0.134 | \$0.149 | \$0.132 | \$0.127 |

Monthly Surcharges

(\$/lb.)

| | Oct-17 | | Nov-17 | | Dec-17 | |
|----------------------|--------|--------|--------|--------|--------|--------|
| | HF | CF | HF | CF | HF | CF |
| 303 | \$0.26 | \$0.30 | \$0.25 | \$0.29 | \$0.35 | \$0.41 |
| 304L | \$0.26 | \$0.30 | \$0.25 | \$0.29 | \$0.35 | \$0.41 |
| 321 | \$0.26 | \$0.30 | \$0.25 | \$0.29 | \$0.35 | \$0.41 |
| 347 | \$0.26 | \$0.30 | \$0.25 | \$0.29 | \$0.35 | \$0.41 |
| 2507 | \$0.55 | \$0.64 | \$0.56 | \$0.66 | \$0.65 | \$0.76 |
| 316L | \$0.43 | \$0.50 | \$0.41 | \$0.48 | \$0.52 | \$0.61 |
| 3R60 | \$0.43 | \$0.51 | \$0.41 | \$0.49 | \$0.53 | \$0.62 |
| 310 | \$0.34 | \$0.40 | \$0.32 | \$0.37 | \$0.49 | \$0.58 |
| 2205 | \$0.47 | \$0.56 | \$0.49 | \$0.57 | \$0.56 | \$0.66 |
| 317L | \$0.50 | \$0.59 | \$0.49 | \$0.57 | \$0.60 | \$0.71 |
| 600 | \$0.34 | \$0.40 | \$0.16 | \$0.18 | \$0.65 | \$0.77 |
| 800 | \$0.30 | \$0.35 | \$0.23 | \$0.27 | \$0.47 | \$0.55 |
| 825 | \$0.52 | \$0.62 | \$0.44 | \$0.52 | \$0.74 | \$0.87 |
| Alloy 20 | \$0.47 | \$0.56 | \$0.40 | \$0.47 | \$0.66 | \$0.78 |
| 400 | \$0.24 | \$0.28 | \$0.04 | \$0.04 | \$0.46 | \$0.55 |
| 625 | \$0.99 | \$1.17 | \$0.86 | \$1.01 | \$1.30 | \$1.53 |
| 904L | \$0.60 | \$0.71 | \$0.56 | \$0.66 | \$0.76 | \$0.89 |
| 2304 | \$0.29 | \$0.34 | \$0.30 | \$0.35 | \$0.37 | \$0.44 |
| 253MA | \$0.27 | \$0.31 | \$0.26 | \$0.30 | \$0.37 | \$0.43 |
| 28// | \$0.57 | \$0.68 | \$0.53 | \$0.62 | \$0.77 | \$0.91 |
| 2RE10 | \$0.31 | \$0.36 | \$0.28 | \$0.33 | \$0.46 | \$0.54 |
| 2RE69 | \$0.45 | \$0.53 | \$0.42 | \$0.50 | \$0.61 | \$0.72 |
| 3RE60 | \$0.43 | \$0.50 | \$0.43 | \$0.51 | \$0.50 | \$0.58 |
| 601 | \$0.36 | \$0.42 | \$0.22 | \$0.26 | \$0.65 | \$0.76 |
| HP160 | \$0.43 | \$0.51 | \$0.43 | \$0.50 | \$0.53 | \$0.62 |
| 71 | \$0.34 | \$0.40 | \$0.15 | \$0.18 | \$0.65 | \$0.77 |
| 80 | \$0.42 | \$0.50 | \$0.42 | \$0.49 | \$0.52 | \$0.61 |
| 200 | \$0.29 | \$0.34 | \$0.00 | \$0.00 | \$0.63 | \$0.75 |
| 309 | \$0.28 | \$0.33 | \$0.27 | \$0.32 | \$0.40 | \$0.47 |
| 330 | \$0.29 | \$0.34 | \$0.21 | \$0.25 | \$0.47 | \$0.55 |
| 446 | \$0.28 | \$0.33 | \$0.32 | \$0.37 | \$0.36 | \$0.43 |
| 690 | \$0.39 | \$0.46 | \$0.27 | \$0.32 | \$0.71 | \$0.84 |
| 702 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| 2707 | \$0.63 | \$0.74 | \$0.64 | \$0.76 | \$0.73 | \$0.86 |
| 2906 | \$0.44 | \$0.52 | \$0.47 | \$0.55 | \$0.56 | \$0.66 |
| 21.6.9 | \$0.30 | \$0.35 | \$0.30 | \$0.36 | \$0.38 | \$0.45 |
| 254SMO | \$0.69 | \$0.82 | \$0.67 | \$0.79 | \$0.82 | \$0.96 |
| 316LVAR | \$0.45 | \$0.52 | \$0.42 | \$0.50 | \$0.54 | \$0.64 |
| 353MA | \$0.32 | \$0.38 | \$0.26 | \$0.31 | \$0.53 | \$0.62 |
| HAST C276 | \$1.41 | \$1.65 | \$1.27 | \$1.50 | \$1.65 | \$1.94 |
| NANOFLEX | \$0.49 | \$0.57 | \$0.47 | \$0.55 | \$0.54 | \$0.64 |
| SAFUREX | \$0.44 | \$0.52 | \$0.47 | \$0.55 | \$0.56 | \$0.66 |
| 316Ti | \$0.39 | \$0.45 | \$0.37 | \$0.43 | \$0.47 | \$0.56 |
| 410 | \$0.21 | \$0.24 | \$0.21 | \$0.25 | \$0.23 | \$0.27 |
| SA29 | \$0.64 | \$0.75 | \$0.59 | \$0.69 | \$0.84 | \$0.99 |
| 304/L MEDICAL | | | | | | |
| 316LVM | | \$1.74 | | \$1.66 | | \$1.90 |