

## Sandvik Surcharge Calculation

### One Month Prior Element Average (\$/lb.)

	5/16/19 - 6/15/19	6/16/19 - 7/15/19	7/16/19 - 8/15/19	8/16/19 - 9/15/19	9/16/19 - 10/15/19	10/16/19 - 11/15/19
<b>Cr</b>	\$1.200	\$1.116	\$1.040	\$1.040	\$1.030	\$1.020
<b>Ni</b>	\$5.400	\$5.620	\$6.690	\$7.740	\$7.950	\$7.400
<b>Mo</b>	\$12.850	\$12.640	\$12.460	\$12.360	\$11.990	\$9.820
<b>Fe</b>	\$0.125	\$0.120	\$0.121	\$0.110	\$0.093	\$0.102

### Monthly Surcharges (\$/lb.)

	Oct-19		Nov-19		Dec-19	
	HF	CF	HF	CF	HF	CF
<b>303</b>	\$0.56	\$0.66	\$0.57	\$0.67	\$0.50	\$0.59
<b>304L</b>	\$0.56	\$0.66	\$0.57	\$0.67	\$0.50	\$0.59
<b>321</b>	\$0.56	\$0.66	\$0.57	\$0.67	\$0.50	\$0.59
<b>347</b>	\$0.56	\$0.66	\$0.57	\$0.67	\$0.50	\$0.59
<b>2507</b>	\$0.88	\$1.03	\$0.86	\$1.01	\$0.70	\$0.83
<b>316L</b>	\$0.89	\$1.05	\$0.90	\$1.06	\$0.74	\$0.87
<b>3R60</b>	\$0.92	\$1.08	\$0.93	\$1.09	\$0.76	\$0.90
<b>310</b>	\$1.00	\$1.18	\$1.04	\$1.22	\$0.88	\$1.03
<b>2205</b>	\$0.72	\$0.85	\$0.70	\$0.83	\$0.58	\$0.68
<b>317L</b>	\$1.03	\$1.21	\$1.03	\$1.21	\$0.84	\$0.98
<b>600</b>	\$2.76	\$3.24	\$2.95	\$3.48	\$2.42	\$2.85
<b>800</b>	\$1.33	\$1.56	\$1.41	\$1.65	\$1.17	\$1.38
<b>825</b>	\$1.95	\$2.29	\$2.03	\$2.39	\$1.66	\$1.95
<b>Alloy 20</b>	\$1.71	\$2.01	\$1.78	\$2.10	\$1.45	\$1.71
<b>400</b>	\$2.48	\$2.91	\$2.66	\$3.12	\$2.17	\$2.55
<b>625</b>	\$3.40	\$4.00	\$3.52	\$4.15	\$2.81	\$3.30
<b>904L</b>	\$1.59	\$1.87	\$1.63	\$1.91	\$1.31	\$1.54
<b>2304</b>	\$0.40	\$0.47	\$0.40	\$0.47	\$0.36	\$0.42
<b>253MA</b>	\$0.58	\$0.69	\$0.60	\$0.70	\$0.52	\$0.61
<b>28//</b>	\$1.71	\$2.01	\$1.77	\$2.08	\$1.44	\$1.69
<b>2RE10</b>	\$0.95	\$1.12	\$1.00	\$1.17	\$0.85	\$0.99
<b>2RE69</b>	\$1.22	\$1.44	\$1.26	\$1.48	\$1.04	\$1.23
<b>3RE60</b>	\$0.65	\$0.76	\$0.63	\$0.74	\$0.52	\$0.61
<b>601</b>	\$2.34	\$2.76	\$2.50	\$2.95	\$2.06	\$2.43
<b>HP160</b>	\$0.81	\$0.96	\$0.81	\$0.96	\$0.67	\$0.79
<b>71</b>	\$2.80	\$3.29	\$3.00	\$3.53	\$2.46	\$2.89
<b>80</b>	\$0.80	\$0.94	\$0.80	\$0.94	\$0.66	\$0.78
<b>200</b>	\$3.62	\$4.25	\$3.89	\$4.58	\$3.17	\$3.73
<b>309</b>	\$0.70	\$0.82	\$0.72	\$0.85	\$0.62	\$0.73
<b>330</b>	\$1.44	\$1.70	\$1.53	\$1.80	\$1.27	\$1.50
<b>446</b>	\$0.22	\$0.26	\$0.20	\$0.24	\$0.21	\$0.24
<b>690</b>	\$2.38	\$2.80	\$2.54	\$2.99	\$2.10	\$2.47
<b>702</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>2707</b>	\$0.97	\$1.15	\$0.95	\$1.12	\$0.77	\$0.90
<b>2906</b>	\$0.69	\$0.81	\$0.68	\$0.80	\$0.58	\$0.68
<b>21.6.9</b>	\$0.49	\$0.58	\$0.49	\$0.58	\$0.43	\$0.50
<b>254SMO</b>	\$1.49	\$1.75	\$1.49	\$1.76	\$1.19	\$1.40
<b>316LVAR</b>	\$0.98	\$1.15	\$0.98	\$1.16	\$0.81	\$0.95
<b>353MA</b>	\$1.46	\$1.72	\$1.55	\$1.82	\$1.29	\$1.52
<b>HAST C276</b>	\$3.87	\$4.55	\$3.94	\$4.64	\$3.07	\$3.61
<b>NANOFLEX</b>	\$0.90	\$1.06	\$0.89	\$1.04	\$0.71	\$0.84
<b>SAFUREX</b>	\$0.69	\$0.81	\$0.68	\$0.80	\$0.58	\$0.68
<b>316Ti</b>	\$0.82	\$0.97	\$0.83	\$0.98	\$0.69	\$0.81
<b>410</b>	\$0.16	\$0.19	\$0.14	\$0.17	\$0.15	\$0.17
<b>SA29</b>	\$1.82	\$2.15	\$1.88	\$2.21	\$1.52	\$1.79
<b>SAN23</b>	\$1.64	\$1.93	\$1.66	\$1.95	\$1.32	\$1.56
<b>Nitronic 50</b>	\$0.88	\$1.04	\$0.89	\$1.05	\$0.74	\$0.87
<b>316LVM</b>		\$2.40		\$2.45		\$2.19