

## Sandvik Surcharge Calculation

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

	3/16/19 - 4/15/19	4/16/19 - 5/15/19	5/16/19 - 6/15/19	6/16/19 - 7/15/19	7/16/19 - 8/15/19	8/16/19 - 9/15/19
<b>Cr</b>	\$1.162	\$1.200	\$1.200	\$1.116	\$1.040	\$1.040
<b>Ni</b>	\$5.910	\$5.540	\$5.400	\$5.620	\$6.690	\$7.740
<b>Mo</b>	\$13.150	\$13.000	\$12.850	\$12.640	\$12.460	\$12.360
<b>Fe</b>	\$0.133	\$0.128	\$0.125	\$0.120	\$0.121	\$0.110

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

	Aug-19		Sep-19		Oct-19	
	HF	CF	HF	CF	HF	CF
<b>303</b>	\$0.29	\$0.34	\$0.42	\$0.50	\$0.56	\$0.66
<b>304L</b>	\$0.29	\$0.34	\$0.42	\$0.50	\$0.56	\$0.66
<b>321</b>	\$0.29	\$0.34	\$0.42	\$0.50	\$0.56	\$0.66
<b>347</b>	\$0.29	\$0.34	\$0.42	\$0.50	\$0.56	\$0.66
<b>2507</b>	\$0.73	\$0.85	\$0.79	\$0.93	\$0.88	\$1.03
<b>316L</b>	\$0.58	\$0.68	\$0.73	\$0.86	\$0.89	\$1.05
<b>3R60</b>	\$0.59	\$0.69	\$0.75	\$0.89	\$0.92	\$1.08
<b>310</b>	\$0.45	\$0.54	\$0.72	\$0.85	\$1.00	\$1.18
<b>2205</b>	\$0.61	\$0.71	\$0.66	\$0.77	\$0.72	\$0.85
<b>317L</b>	\$0.70	\$0.82	\$0.86	\$1.01	\$1.03	\$1.21
<b>600</b>	\$0.73	\$0.85	\$1.74	\$2.05	\$2.76	\$3.24
<b>800</b>	\$0.45	\$0.53	\$0.89	\$1.05	\$1.33	\$1.56
<b>825</b>	\$0.85	\$1.01	\$1.40	\$1.64	\$1.95	\$2.29
<b>Alloy 20</b>	\$0.75	\$0.89	\$1.23	\$1.44	\$1.71	\$2.01
<b>400</b>	\$0.59	\$0.69	\$1.54	\$1.81	\$2.48	\$2.91
<b>625</b>	\$1.71	\$2.01	\$2.54	\$2.99	\$3.40	\$4.00
<b>904L</b>	\$0.91	\$1.08	\$1.25	\$1.47	\$1.59	\$1.87
<b>2304</b>	\$0.30	\$0.36	\$0.35	\$0.41	\$0.40	\$0.47
<b>253MA</b>	\$0.30	\$0.36	\$0.44	\$0.52	\$0.58	\$0.69
<b>28//</b>	\$0.88	\$1.03	\$1.28	\$1.51	\$1.71	\$2.01
<b>2RE10</b>	\$0.41	\$0.48	\$0.68	\$0.79	\$0.95	\$1.12
<b>2RE69</b>	\$0.64	\$0.76	\$0.93	\$1.09	\$1.22	\$1.44
<b>3RE60</b>	\$0.54	\$0.64	\$0.59	\$0.69	\$0.65	\$0.76
<b>601</b>	\$0.67	\$0.79	\$1.51	\$1.77	\$2.34	\$2.76
<b>HP160</b>	\$0.57	\$0.67	\$0.69	\$0.81	\$0.81	\$0.96
<b>71</b>	\$0.73	\$0.86	\$1.77	\$2.08	\$2.80	\$3.29
<b>80</b>	\$0.56	\$0.66	\$0.68	\$0.79	\$0.80	\$0.94
<b>200</b>	\$0.82	\$0.96	\$2.23	\$2.62	\$3.62	\$4.25
<b>309</b>	\$0.34	\$0.40	\$0.51	\$0.61	\$0.70	\$0.82
<b>330</b>	\$0.47	\$0.55	\$0.95	\$1.12	\$1.44	\$1.70
<b>446</b>	\$0.26	\$0.30	\$0.23	\$0.27	\$0.22	\$0.26
<b>690</b>	\$0.72	\$0.84	\$1.54	\$1.81	\$2.38	\$2.80
<b>702</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>2707</b>	\$0.84	\$0.99	\$0.90	\$1.06	\$0.97	\$1.15
<b>2906</b>	\$0.55	\$0.64	\$0.61	\$0.72	\$0.69	\$0.81
<b>21.6.9</b>	\$0.34	\$0.40	\$0.41	\$0.49	\$0.49	\$0.58
<b>254SMO</b>	\$1.03	\$1.21	\$1.25	\$1.47	\$1.49	\$1.75
<b>316LVAR</b>	\$0.62	\$0.73	\$0.79	\$0.93	\$0.98	\$1.15
<b>353MA</b>	\$0.50	\$0.59	\$0.98	\$1.15	\$1.46	\$1.72
<b>HAST C276</b>	\$2.38	\$2.79	\$3.11	\$3.66	\$3.87	\$4.55
<b>NANOFLEX</b>	\$0.68	\$0.80	\$0.79	\$0.93	\$0.90	\$1.06
<b>SAFUREX</b>	\$0.55	\$0.64	\$0.61	\$0.72	\$0.69	\$0.81
<b>316Ti</b>	\$0.52	\$0.61	\$0.67	\$0.78	\$0.82	\$0.97
<b>410</b>	\$0.18	\$0.21	\$0.17	\$0.20	\$0.16	\$0.19
<b>SA29</b>	\$0.98	\$1.16	\$1.39	\$1.64	\$1.82	\$2.15
<b>SAN23</b>	\$1.07	\$1.26	\$1.34	\$1.58	\$1.64	\$1.93
<b>Nitronic 50</b>	\$0.57	\$0.67	\$0.72	\$0.85	\$0.88	\$1.04
<b>316LVM</b>		\$1.95		\$2.18		\$2.40