

## Sandvik Surcharge Calculation

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

	1/16/19 - 2/15/19	2/16/19 - 3/15/19	3/16/19 - 4/15/19	4/16/19 - 5/15/19	5/16/19 - 6/15/19	6/16/19 - 7/15/19
<b>Cr</b>	\$1.120	\$1.120	\$1.162	\$1.200	\$1.200	\$1.116
<b>Ni</b>	\$5.510	\$5.890	\$5.910	\$5.540	\$5.400	\$5.620
<b>Mo</b>	\$12.060	\$13.140	\$13.150	\$13.000	\$12.850	\$12.640
<b>Fe</b>	\$0.127	\$0.134	\$0.133	\$0.128	\$0.125	\$0.120

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

	Jun-19		Jul-19		Aug-19	
	HF	CF	HF	CF	HF	CF
<b>303</b>	\$0.31	\$0.36	\$0.29	\$0.34	\$0.29	\$0.34
<b>304L</b>	\$0.31	\$0.36	\$0.29	\$0.34	\$0.29	\$0.34
<b>321</b>	\$0.31	\$0.36	\$0.29	\$0.34	\$0.29	\$0.34
<b>347</b>	\$0.31	\$0.36	\$0.29	\$0.34	\$0.29	\$0.34
<b>2507</b>	\$0.77	\$0.91	\$0.75	\$0.88	\$0.73	\$0.85
<b>316L</b>	\$0.60	\$0.71	\$0.57	\$0.67	\$0.58	\$0.68
<b>3R60</b>	\$0.62	\$0.72	\$0.58	\$0.69	\$0.59	\$0.69
<b>310</b>	\$0.47	\$0.55	\$0.43	\$0.50	\$0.45	\$0.54
<b>2205</b>	\$0.65	\$0.76	\$0.63	\$0.74	\$0.61	\$0.71
<b>317L</b>	\$0.73	\$0.86	\$0.70	\$0.82	\$0.70	\$0.82
<b>600</b>	\$0.67	\$0.79	\$0.53	\$0.63	\$0.73	\$0.85
<b>800</b>	\$0.45	\$0.52	\$0.38	\$0.45	\$0.45	\$0.53
<b>825</b>	\$0.85	\$1.01	\$0.77	\$0.91	\$0.85	\$1.01
<b>Alloy 20</b>	\$0.76	\$0.89	\$0.68	\$0.80	\$0.75	\$0.89
<b>400</b>	\$0.52	\$0.61	\$0.39	\$0.46	\$0.59	\$0.69
<b>625</b>	\$1.71	\$2.01	\$1.58	\$1.86	\$1.71	\$2.01
<b>904L</b>	\$0.94	\$1.10	\$0.88	\$1.03	\$0.91	\$1.08
<b>2304</b>	\$0.33	\$0.39	\$0.32	\$0.38	\$0.30	\$0.36
<b>253MA</b>	\$0.32	\$0.38	\$0.30	\$0.35	\$0.30	\$0.36
<b>28//</b>	\$0.90	\$1.05	\$0.83	\$0.98	\$0.88	\$1.03
<b>2RE10</b>	\$0.42	\$0.49	\$0.38	\$0.45	\$0.41	\$0.48
<b>2RE69</b>	\$0.66	\$0.78	\$0.62	\$0.72	\$0.64	\$0.76
<b>3RE60</b>	\$0.58	\$0.68	\$0.56	\$0.66	\$0.54	\$0.64
<b>601</b>	\$0.64	\$0.75	\$0.52	\$0.62	\$0.67	\$0.79
<b>HP160</b>	\$0.60	\$0.71	\$0.58	\$0.68	\$0.57	\$0.67
<b>71</b>	\$0.67	\$0.79	\$0.53	\$0.63	\$0.73	\$0.86
<b>80</b>	\$0.59	\$0.69	\$0.56	\$0.66	\$0.56	\$0.66
<b>200</b>	\$0.71	\$0.84	\$0.53	\$0.62	\$0.82	\$0.96
<b>309</b>	\$0.35	\$0.42	\$0.32	\$0.38	\$0.34	\$0.40
<b>330</b>	\$0.45	\$0.53	\$0.38	\$0.45	\$0.47	\$0.55
<b>446</b>	\$0.30	\$0.35	\$0.29	\$0.34	\$0.26	\$0.30
<b>690</b>	\$0.69	\$0.81	\$0.57	\$0.68	\$0.72	\$0.84
<b>702</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>2707</b>	\$0.90	\$1.05	\$0.87	\$1.03	\$0.84	\$0.99
<b>2906</b>	\$0.59	\$0.69	\$0.57	\$0.67	\$0.55	\$0.64
<b>21.6.9</b>	\$0.37	\$0.43	\$0.35	\$0.41	\$0.34	\$0.40
<b>254SMO</b>	\$1.07	\$1.26	\$1.02	\$1.20	\$1.03	\$1.21
<b>316LVAR</b>	\$0.64	\$0.76	\$0.61	\$0.71	\$0.62	\$0.73
<b>353MA</b>	\$0.50	\$0.58	\$0.43	\$0.50	\$0.50	\$0.59
<b>HAST C276</b>	\$2.41	\$2.84	\$2.27	\$2.68	\$2.38	\$2.79
<b>NANOFLEX</b>	\$0.71	\$0.84	\$0.68	\$0.80	\$0.68	\$0.80
<b>SAFUREX</b>	\$0.59	\$0.69	\$0.57	\$0.67	\$0.55	\$0.64
<b>316Ti</b>	\$0.54	\$0.64	\$0.51	\$0.60	\$0.52	\$0.61
<b>410</b>	\$0.20	\$0.24	\$0.20	\$0.23	\$0.18	\$0.21
<b>SA29</b>	\$1.00	\$1.18	\$0.94	\$1.10	\$0.98	\$1.16
<b>SAN23</b>	\$1.10	\$1.30	\$1.05	\$1.23	\$1.07	\$1.26
<b>Nitronic 50</b>	\$0.60	\$0.70	\$0.57	\$0.67	\$0.57	\$0.67
<b>316LVM</b>		\$1.99		\$1.99		\$1.95