

## Sandvik Surcharge Calculation

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

	9/16/18 - 10/15/18	10/16/18 - 11/15/18	11/16/18- 12/15/18	12/16/18 to 1/15/19	1/16/19 - 2/15/19	2/16/19 - 3/15/19
<b>Cr</b>	\$1.307	\$1.240	\$1.240	\$1.177	\$1.120	\$1.120
<b>Ni</b>	\$5.710	\$5.380	\$4.960	\$4.960	\$5.510	\$5.890
<b>Mo</b>	\$13.130	\$13.130	\$13.110	\$12.610	\$12.060	\$13.140
<b>Fe</b>	\$0.136	\$0.140	\$0.135	\$0.118	\$0.127	\$0.134

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

	Feb-19		Mar-19		Apr-19	
	HF	CF	HF	CF	HF	CF
<b>303</b>	\$0.22	\$0.26	\$0.28	\$0.33	\$0.34	\$0.40
<b>304L</b>	\$0.22	\$0.26	\$0.28	\$0.33	\$0.34	\$0.40
<b>321</b>	\$0.22	\$0.26	\$0.28	\$0.33	\$0.34	\$0.40
<b>347</b>	\$0.22	\$0.26	\$0.28	\$0.33	\$0.34	\$0.40
<b>2507</b>	\$0.68	\$0.81	\$0.69	\$0.82	\$0.79	\$0.93
<b>316L</b>	\$0.49	\$0.57	\$0.55	\$0.64	\$0.65	\$0.77
<b>3R60</b>	\$0.49	\$0.58	\$0.56	\$0.66	\$0.67	\$0.79
<b>310</b>	\$0.30	\$0.36	\$0.43	\$0.50	\$0.54	\$0.64
<b>2205</b>	\$0.58	\$0.68	\$0.58	\$0.69	\$0.66	\$0.78
<b>317L</b>	\$0.60	\$0.71	\$0.66	\$0.78	\$0.78	\$0.92
<b>600</b>	\$0.14	\$0.16	\$0.62	\$0.73	\$0.99	\$1.16
<b>800</b>	\$0.20	\$0.24	\$0.41	\$0.48	\$0.58	\$0.68
<b>825</b>	\$0.54	\$0.63	\$0.78	\$0.91	\$1.03	\$1.21
<b>Alloy 20</b>	\$0.48	\$0.56	\$0.69	\$0.81	\$0.91	\$1.07
<b>400</b>	\$0.03	\$0.04	\$0.49	\$0.58	\$0.83	\$0.98
<b>625</b>	\$1.21	\$1.42	\$1.55	\$1.82	\$1.99	\$2.34
<b>904L</b>	\$0.72	\$0.84	\$0.85	\$1.00	\$1.05	\$1.23
<b>2304</b>	\$0.28	\$0.33	\$0.30	\$0.35	\$0.34	\$0.40
<b>253MA</b>	\$0.23	\$0.27	\$0.29	\$0.35	\$0.36	\$0.42
<b>28//</b>	\$0.64	\$0.75	\$0.81	\$0.95	\$1.02	\$1.20
<b>2RE10</b>	\$0.26	\$0.30	\$0.38	\$0.45	\$0.49	\$0.58
<b>2RE69</b>	\$0.48	\$0.56	\$0.60	\$0.71	\$0.75	\$0.88
<b>3RE60</b>	\$0.52	\$0.61	\$0.52	\$0.62	\$0.59	\$0.70
<b>601</b>	\$0.20	\$0.23	\$0.59	\$0.69	\$0.89	\$1.05
<b>HP160</b>	\$0.50	\$0.59	\$0.54	\$0.64	\$0.64	\$0.75
<b>71</b>	\$0.13	\$0.16	\$0.62	\$0.73	\$1.00	\$1.18
<b>80</b>	\$0.49	\$0.58	\$0.53	\$0.63	\$0.62	\$0.73
<b>200</b>	\$0.00	\$0.00	\$0.67	\$0.79	\$1.17	\$1.38
<b>309</b>	\$0.24	\$0.28	\$0.32	\$0.38	\$0.40	\$0.47
<b>330</b>	\$0.19	\$0.22	\$0.42	\$0.49	\$0.60	\$0.71
<b>446</b>	\$0.28	\$0.33	\$0.27	\$0.31	\$0.27	\$0.32
<b>690</b>	\$0.24	\$0.29	\$0.63	\$0.74	\$0.94	\$1.10
<b>702</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>2707</b>	\$0.81	\$0.95	\$0.80	\$0.95	\$0.91	\$1.07
<b>2906</b>	\$0.51	\$0.60	\$0.53	\$0.62	\$0.60	\$0.70
<b>21.6.9</b>	\$0.30	\$0.36	\$0.33	\$0.39	\$0.38	\$0.45
<b>254SMO</b>	\$0.89	\$1.05	\$0.96	\$1.13	\$1.15	\$1.35
<b>316LVAR</b>	\$0.51	\$0.60	\$0.58	\$0.68	\$0.70	\$0.82
<b>353MA</b>	\$0.23	\$0.27	\$0.45	\$0.53	\$0.64	\$0.75
<b>HAST C276</b>	\$1.92	\$2.26	\$2.17	\$2.55	\$2.68	\$3.16
<b>NANOFLEX</b>	\$0.61	\$0.72	\$0.64	\$0.76	\$0.75	\$0.89
<b>SAFUREX</b>	\$0.51	\$0.60	\$0.53	\$0.62	\$0.60	\$0.70
<b>316Ti</b>	\$0.43	\$0.50	\$0.49	\$0.58	\$0.59	\$0.69
<b>410</b>	\$0.18	\$0.21	\$0.19	\$0.22	\$0.20	\$0.23
<b>SA29</b>	\$0.74	\$0.87	\$0.91	\$1.07	\$1.13	\$1.33
<b>SAN23</b>	\$0.90	\$1.06	\$0.99	\$1.17	\$1.20	\$1.41
<b>Nitronic 50</b>	\$0.48	\$0.56	\$0.54	\$0.63	\$0.64	\$0.75
<b>316LVM</b>		\$1.81		\$1.92		\$2.05