

Raw Material and Energy Surcharges 2013 - USD/lb.

(applicable at time of shipment)

(corrected Alloy Steels section Nov. 6, 2013)



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STAINLESS STEELS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
15-15HS® Stainless	0.60	0.61	0.60	0.60	0.58	0.57	0.55	0.55	0.54	0.54	0.54	0.55
15-15LC® Modified Stainless	0.60	0.62	0.61	0.61	0.58	0.58	0.55	0.55	0.54	0.54	0.55	0.56
20Cb-3® Stainless	2.89	2.92	2.97	2.76	2.54	2.46	2.32	2.18	2.29	2.20	2.27	2.21
20Mo-6® Stainless	3.18	3.23	3.26	3.04	2.83	2.72	2.59	2.41	2.50	2.40	2.47	2.44
302HQ-FM® Stainless	0.86	0.86	0.88	0.83	0.77	0.74	0.72	0.69	0.72	0.69	0.71	0.70
316L-SCQ® Stainless	1.30	1.32	1.33	1.25	1.17	1.14	1.09	1.02	1.05	1.02	1.05	1.05
Carpenter 13-8 Stainless	0.98	1.02	1.00	0.96	0.90	0.87	0.85	0.80	0.82	0.79	0.82	0.81
Carpenter 15Cr-5Ni	0.67	0.67	0.69	0.65	0.61	0.59	0.57	0.56	0.59	0.58	0.58	0.59
Carpenter 18Cr-2Ni-12Mn	0.45	0.46	0.47	0.47	0.45	0.44	0.44	0.43	0.43	0.43	0.44	0.45
Carpenter 18Cr-3Ni-12Mn	0.58	0.58	0.59	0.57	0.55	0.53	0.53	0.51	0.51	0.50	0.52	0.52
Carpenter 21Cr-6Ni-9Mn	0.77	0.78	0.79	0.76	0.70	0.69	0.67	0.65	0.67	0.65	0.67	0.66
Carpenter 22Cr-13Ni-5Mn	1.36	1.39	1.39	1.32	1.24	1.20	1.16	1.08	1.12	1.08	1.11	1.11
Carpenter 275 Stainless	1.07	1.10	1.09	1.04	0.95	0.93	0.88	0.84	0.87	0.84	0.87	0.84
Carpenter 302HQ-SFQ Stainless	0.86	0.86	0.88	0.83	0.77	0.74	0.72	0.69	0.72	0.69	0.71	0.70
Carpenter Custom 631 (17Cr-7Ni) AISI Type 631	0.71	0.73	0.74	0.70	0.66	0.64	0.61	0.58	0.61	0.59	0.61	0.60
Carpenter Stainless 15-7PH	0.94	0.97	0.96	0.92	0.87	0.85	0.81	0.77	0.79	0.77	0.79	0.78
Carpenter Stainless Custom 630 (17Cr-4Ni)	0.65	0.67	0.66	0.64	0.60	0.59	0.57	0.57	0.57	0.56	0.58	0.58
Carpenter Stainless No. 5-F (Type 416 Mod)	0.23	0.25	0.24	0.25	0.24	0.24	0.24	0.25	0.24	0.24	0.25	0.26
Carpenter Stainless Type 302	0.86	0.86	0.88	0.83	0.77	0.74	0.72	0.69	0.72	0.69	0.71	0.70
Carpenter Stainless Type 302/304/304L	0.86	0.86	0.88	0.83	0.77	0.74	0.72	0.69	0.72	0.69	0.71	0.70
Carpenter Stainless Type 303	0.87	0.87	0.89	0.84	0.78	0.75	0.73	0.69	0.72	0.69	0.71	0.70
Carpenter Stainless Type 303 Se	0.86	0.86	0.88	0.83	0.77	0.74	0.72	0.69	0.72	0.69	0.71	0.70
Carpenter Stainless Type 304/304L	0.88	0.89	0.91	0.85	0.79	0.76	0.74	0.71	0.73	0.71	0.73	0.72
Carpenter Stainless Type 305	1.05	1.06	1.07	1.01	0.93	0.89	0.87	0.83	0.87	0.83	0.85	0.84
Carpenter Stainless Type 309	1.19	1.21	1.23	1.15	1.06	1.02	0.98	0.93	0.98	0.94	0.97	0.96
Carpenter Stainless Type 310	1.67	1.69	1.71	1.61	1.48	1.42	1.35	1.29	1.35	1.29	1.34	1.30
Carpenter Stainless Type 316/316L	1.30	1.32	1.33	1.25	1.17	1.14	1.09	1.02	1.05	1.02	1.05	1.05
Carpenter Stainless Type 316L	1.30	1.32	1.33	1.25	1.17	1.14	1.09	1.02	1.05	1.02	1.05	1.05
Carpenter Stainless Type 321	0.97	0.97	0.98	0.93	0.86	0.82	0.80	0.76	0.80	0.77	0.79	0.78
Carpenter Stainless Type 347	1.00	1.00	1.02	0.96	0.89	0.85	0.83	0.79	0.83	0.79	0.81	0.80
Carpenter Stainless Type 403	0.24	0.24	0.25	0.25	0.24	0.23	0.23	0.24	0.24	0.24	0.24	0.26
Carpenter Stainless Type 410	0.24	0.24	0.25	0.25	0.24	0.23	0.23	0.24	0.24	0.24	0.24	0.26
Carpenter Stainless Type 416	0.23	0.25	0.24	0.25	0.24	0.24	0.24	0.25	0.24	0.24	0.25	0.26
Carpenter Stainless Type 416 (No. 5)	0.23	0.25	0.24	0.25	0.24	0.24	0.24	0.25	0.24	0.24	0.25	0.26
Carpenter Stainless Type 416 RS	0.23	0.25	0.24	0.25	0.24	0.24	0.24	0.25	0.24	0.24	0.25	0.26
Carpenter Stainless Type 416BQ (No. 5BQ)	0.23	0.25	0.24	0.25	0.24	0.24	0.24	0.25	0.24	0.24	0.25	0.26
Carpenter Stainless Type 420	0.23	0.25	0.24	0.25	0.24	0.24	0.24	0.25	0.24	0.24	0.25	0.26
Carpenter Stainless Type 420 Mod	0.23	0.25	0.24	0.25	0.24	0.24	0.24	0.25	0.24	0.24	0.25	0.26
Carpenter Stainless Type 420F	0.23	0.25	0.24	0.25	0.24	0.24	0.24	0.25	0.24	0.24	0.25	0.26

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Carpenter Stainless Type 430	0.26	0.27	0.27	0.27	0.26	0.26	0.25	0.26	0.26	0.26	0.27	0.28
Carpenter Stainless Type 430F	0.26	0.27	0.27	0.27	0.26	0.26	0.25	0.26	0.26	0.26	0.27	0.28
Carpenter Stainless Type 430FR	0.26	0.27	0.27	0.27	0.26	0.26	0.25	0.26	0.26	0.26	0.27	0.28
Carpenter Stainless Type 431	0.37	0.39	0.38	0.38	0.36	0.36	0.35	0.35	0.35	0.34	0.36	0.36
Carpenter Stainless Type 434	0.35	0.38	0.36	0.37	0.36	0.36	0.35	0.35	0.34	0.34	0.35	0.36
Carpenter Stainless Type 440A	0.26	0.27	0.27	0.27	0.26	0.26	0.25	0.26	0.26	0.26	0.27	0.28
Carpenter Stainless Type 440C	0.26	0.27	0.27	0.27	0.26	0.26	0.25	0.26	0.26	0.26	0.27	0.28
Carpenter Stainless Type 440F-Se	0.26	0.27	0.27	0.27	0.26	0.26	0.25	0.26	0.26	0.26	0.27	0.28
Carpenter Stainless Type 446	0.28	0.30	0.30	0.31	0.30	0.29	0.29	0.30	0.29	0.29	0.30	0.32
Carpenter Type 204-Cu Stainless	0.65	0.65	0.66	0.63	0.61	0.59	0.59	0.56	0.58	0.58	0.58	0.59
Consumet Type 304L-SCQ	0.86	0.86	0.88	0.83	0.77	0.74	0.72	0.69	0.72	0.69	0.71	0.70
Custom 450® Stainless	0.77	0.79	0.79	0.75	0.71	0.69	0.66	0.64	0.66	0.65	0.66	0.66
Custom 455® Stainless	0.88	0.89	0.89	0.84	0.77	0.75	0.72	0.70	0.73	0.71	0.72	0.72
Custom 465® Stainless	1.08	1.08	1.10	1.03	0.95	0.92	0.89	0.84	0.87	0.83	0.86	0.85
Custom 475™ Stainless	1.22	1.25	1.25	1.18	1.12	1.08	1.05	0.98	0.99	0.96	0.99	1.00
Custom Flo 302HQ Stainless	0.86	0.86	0.88	0.83	0.77	0.74	0.72	0.69	0.72	0.69	0.71	0.70
EnduraMet® 2205 Stainless	0.95	0.97	0.97	0.93	0.87	0.86	0.83	0.79	0.79	0.78	0.81	0.82
Gall-Tough® PLUS Stainless (UNS S21800)	0.98	1.01	1.01	0.96	0.91	0.89	0.86	0.82	0.83	0.80	0.83	0.83
Gall-Tough® Stainless	0.64	0.63	0.64	0.62	0.58	0.55	0.55	0.53	0.55	0.53	0.54	0.54
Project 70+® 15Cr-5Ni Stainless	0.67	0.67	0.69	0.65	0.61	0.59	0.57	0.56	0.59	0.58	0.58	0.59
Project 70+® Custom 630 Stainless	0.65	0.67	0.66	0.64	0.60	0.59	0.57	0.57	0.57	0.56	0.58	0.58
Project 70+® Type 303 Escomatic Quality	0.87	0.87	0.89	0.84	0.78	0.75	0.73	0.69	0.72	0.69	0.71	0.70
Project 70+® Type 303 Stainless	0.87	0.87	0.89	0.84	0.78	0.75	0.73	0.69	0.72	0.69	0.71	0.70
Project 70+® Type 304/304L Stainless	0.88	0.89	0.91	0.85	0.79	0.76	0.74	0.71	0.73	0.71	0.73	0.72
Project 70+® Type 316/316L Stainless	1.30	1.32	1.33	1.25	1.17	1.14	1.09	1.02	1.05	1.02	1.05	1.05
Project 70+® Type 416 Stainless	0.23	0.25	0.24	0.25	0.24	0.24	0.24	0.25	0.24	0.24	0.25	0.26
Pyrowear® 675 Stainless	0.64	0.67	0.66	0.65	0.61	0.60	0.59	0.57	0.56	0.55	0.58	0.58
SCF 19® Alloy	1.88	1.94	1.92	1.82	1.70	1.66	1.59	1.48	1.51	1.47	1.51	1.49
Stainless Type 304H	0.88	0.89	0.91	0.85	0.79	0.76	0.74	0.71	0.73	0.71	0.73	0.72
Stainless Type 410 Mod	0.24	0.24	0.25	0.25	0.24	0.23	0.23	0.24	0.24	0.24	0.24	0.26
TrimRite® Stainless	0.35	0.36	0.36	0.35	0.34	0.34	0.34	0.33	0.32	0.32	0.33	0.35
Type 409Cb Stainless	0.23	0.24	0.24	0.24	0.23	0.23	0.22	0.23	0.23	0.23	0.24	0.25
Type 409Cb High Nickel Stainless	0.29	0.30	0.30	0.30	0.28	0.28	0.28	0.28	0.28	0.27	0.29	0.29

AEROSPACE AND HIGH TEMPERATURE ALLOYS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A-286 Alloy	2.13	2.16	2.18	2.02	1.85	1.79	1.71	1.60	1.68	1.60	1.65	1.62
AMS 5842 Alloy	4.26	4.65	4.94	4.50	4.42	4.87	5.22	5.06	4.44	4.89	4.68	4.12
Carpenter 636	0.49	0.51	0.52	0.51	0.49	0.48	0.48	0.47	0.46	0.46	0.46	0.48
Carpenter Greek Ascology	0.99	1.01	1.00	0.98	0.96	1.00	1.09	1.09	1.09	1.08	1.09	1.10
Carpenter L-605 Alloy	5.99	6.52	6.94	6.42	6.45	7.53	8.60	8.62	7.69	8.39	8.03	7.24
Carpenter Waspalay	5.18	5.34	5.52	5.08	4.74	4.73	4.69	4.43	4.34	4.38	4.38	4.07
Pyromet® Alloy 350	0.83	0.84	0.84	0.80	0.79	0.75	0.74	0.68	0.69	0.69	0.69	0.71

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Pyromet® Alloy 355	0.82	0.85	0.84	0.81	0.78	0.75	0.73	0.68	0.69	0.69	0.70	0.71
Pyromet® Alloy 41	5.60	5.79	5.89	5.46	5.14	5.09	5.01	4.68	4.62	4.63	4.64	4.41
Pyromet® Alloy 600	4.91	4.92	5.03	4.62	4.15	3.93	3.68	3.39	3.64	3.42	3.54	3.40
Pyromet® Alloy 625	6.45	6.51	6.56	6.13	5.71	5.52	5.26	4.89	5.07	4.89	4.99	4.90
Pyromet® Alloy 680	5.04	5.11	5.15	4.83	4.53	4.40	4.23	3.90	4.00	3.90	3.98	3.89
Pyromet® Alloy 706	3.86	3.88	3.93	3.67	3.39	3.24	3.08	2.91	3.05	2.92	2.97	2.89
Pyromet® Alloy 718	5.39	5.41	5.48	5.12	4.78	4.60	4.38	4.10	4.27	4.12	4.18	4.09
Pyromet® Alloy 720	5.11	5.30	5.48	5.02	4.69	4.69	4.70	4.46	4.37	4.42	4.40	4.08
Pyromet® Alloy 80A	5.28	5.30	5.41	4.98	4.50	4.24	3.98	3.67	3.92	3.70	3.82	3.68
Pyromet® Alloy 882	0.41	0.43	0.41	0.42	0.42	0.42	0.42	0.42	0.41	0.41	0.41	0.43
Pyromet® Alloy 901	3.89	3.92	3.94	3.68	3.42	3.23	3.07	2.82	2.94	2.83	2.90	2.85
Pyromet® Alloy CTX-1	3.22	3.38	3.56	3.20	2.99	3.10	3.14	3.05	2.89	2.99	2.94	2.63
Pyromet® Alloy CTX-3	3.51	3.66	3.83	3.47	3.28	3.36	3.38	3.28	3.14	3.24	3.16	2.88
Pyromet® Alloy CTX-909	3.49	3.64	3.81	3.45	3.26	3.34	3.36	3.26	3.12	3.22	3.14	2.86
Pyromet® Alloy X-750	4.85	4.85	4.96	4.55	4.11	3.85	3.60	3.32	3.56	3.35	3.47	3.33
Thermo-Span® Alloy	3.70	4.01	4.28	3.87	3.77	4.14	4.42	4.38	3.91	4.25	4.05	3.57
Carpenter 286-LNi Alloy	1.66	1.68	1.71	1.60	1.44	1.39	1.33	1.29	1.32	1.27	1.31	1.27

MAGNETIC, CONTROLLED EXPANSION AND ELECTRICAL ALLOYS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
485 Alloy	3.39	3.40	3.47	3.20	2.91	2.79	2.64	2.48	2.64	2.50	2.58	2.50
Carpenter 22-3 High Thermal Expansion Alloy	1.67	1.69	1.71	1.60	1.45	1.39	1.32	1.26	1.33	1.27	1.31	1.26
Carpenter Electrical Iron	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.20
Carpenter Glass Sealing "42-6"	3.07	3.08	3.14	2.90	2.64	2.53	2.39	2.25	2.40	2.27	2.34	2.27
Carpenter Glass Sealing 42	2.93	2.95	3.01	2.79	2.52	2.42	2.28	2.16	2.30	2.18	2.25	2.17
Carpenter Glass Sealing 52	3.57	3.59	3.66	3.39	3.06	2.94	2.77	2.61	2.79	2.63	2.72	2.62
Carpenter High Permeability "49"® Alloy	3.41	3.42	3.49	3.22	2.92	2.80	2.65	2.49	2.65	2.51	2.59	2.51
Carpenter HyMu "80"® Alloy	5.95	5.99	6.09	5.63	5.12	4.92	4.65	4.34	4.60	4.36	4.51	4.37
Carpenter HyMu "80"® Mark II Alloy	5.95	5.99	6.09	5.63	5.12	4.92	4.65	4.34	4.60	4.36	4.51	4.37
Carpenter HyMu "80"® Mark III Alloy	5.95	5.99	6.09	5.63	5.12	4.92	4.65	4.34	4.60	4.36	4.51	4.37
Carpenter HyMu "800"	6.03	6.07	6.17	5.70	5.20	4.99	4.72	4.41	4.66	4.42	4.57	4.43
Carpenter Invar 36 Alloy	2.60	2.62	2.66	2.47	2.23	2.15	2.03	1.92	2.04	1.93	1.99	1.92
Carpenter Low Expansion "42"® Alloy	2.93	2.95	3.01	2.79	2.52	2.42	2.28	2.16	2.30	2.18	2.25	2.17
Carpenter Low Expansion "42"® Thermostat Alloy	2.93	2.95	3.01	2.79	2.52	2.42	2.28	2.16	2.30	2.18	2.25	2.17
Carpenter Low Expansion 43-PH	3.08	3.10	3.15	2.91	2.64	2.53	2.39	2.25	2.39	2.26	2.34	2.27
Carpenter Nickel 200 Alloy	6.84	6.87	7.02	6.46	5.84	5.60	5.27	4.95	5.28	4.99	5.16	4.96
Carpenter Nickel 201 Alloy	6.84	6.87	7.02	6.46	5.84	5.60	5.27	4.95	5.28	4.99	5.16	4.96
Carpenter Nickel 205 Alloy	6.84	6.87	7.02	6.46	5.84	5.60	5.27	4.95	5.28	4.99	5.16	4.96
Carpenter Silicon Core Iron "A-FM"	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.19
Carpenter Silicon Core Iron "B"	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.19
Carpenter Silicon Core Iron "B-FM"	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.19
Carpenter Temperature Compensator "30"® Type 2	2.19	2.21	2.25	2.09	1.89	1.82	1.72	1.63	1.73	1.64	1.69	1.63

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Carpenter Temperature Compensator "30"® Type 4	2.19	2.21	2.25	2.09	1.89	1.82	1.72	1.63	1.73	1.64	1.69	1.63
Carpenter Temperature Compensator "32"	2.37	2.37	2.42	2.24	2.03	1.95	1.84	1.74	1.85	1.76	1.81	1.76
Chrome Core® 8-FM Alloy	0.24	0.26	0.25	0.26	0.25	0.24	0.24	0.25	0.25	0.25	0.25	0.27
Chrome Core® 12-FM Alloy	0.27	0.28	0.27	0.27	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.28
Chrome Core® 13-FM	0.26	0.29	0.27	0.28	0.27	0.27	0.27	0.28	0.27	0.27	0.28	0.29
Chrome Core® 13-XP	0.39	0.43	0.42	0.42	0.41	0.40	0.40	0.40	0.38	0.38	0.39	0.40
Chrome Core® 18-FM Alloy	0.43	0.46	0.44	0.44	0.43	0.43	0.42	0.42	0.40	0.40	0.41	0.43
Free-Cut Invar "36"® Alloy	2.60	2.62	2.66	2.47	2.23	2.15	2.03	1.92	2.04	1.93	1.99	1.92
High Expansion 20Ni-6Mn	1.58	1.58	1.62	1.50	1.36	1.31	1.26	1.19	1.26	1.20	1.23	1.21
High Expansion 72	2.43	2.41	2.48	2.37	2.25	2.23	2.16	2.09	2.15	2.12	2.14	2.11
Hiperco® 27 Alloy	0.80	1.08	1.30	1.10	1.15	1.60	1.96	2.02	1.50	1.89	1.69	1.29
Hiperco® 50 Alloy	1.45	2.00	2.41	2.04	2.13	2.95	3.58	3.68	2.74	3.44	3.08	2.34
Hiperco® 50 HS Alloy	1.45	2.00	2.41	2.04	2.13	2.95	3.58	3.68	2.74	3.44	3.08	2.34
Hiperco® 50A Alloy	1.45	2.00	2.41	2.04	2.13	2.95	3.58	3.68	2.74	3.44	3.08	2.34
Hy Mu 77 Alloy	5.51	5.53	5.64	5.20	4.70	4.52	4.25	4.01	4.28	4.05	4.18	4.02
Hy-Ra "49"® Alloy	3.41	3.42	3.49	3.22	2.92	2.80	2.65	2.49	2.65	2.51	2.59	2.51
Kovar® Alloy	2.09	2.10	2.15	1.98	1.80	1.73	1.63	1.54	1.64	1.55	1.60	1.55
MagneDur® 20-4 Alloy	1.89	1.93	1.93	1.82	1.68	1.62	1.54	1.45	1.50	1.45	1.48	1.47
No. 1 JR® Type 1 Alloy	0.23	0.25	0.24	0.25	0.24	0.24	0.24	0.25	0.24	0.24	0.25	0.26
No. 1 JR® Type 2 Alloy	0.23	0.25	0.24	0.25	0.24	0.24	0.24	0.25	0.24	0.24	0.25	0.26
Rotelloy 3 Alloy	1.45	2.00	2.41	2.04	2.13	2.95	3.58	3.68	2.74	3.44	3.08	2.34
Rotelloy 8 Alloy	1.45	2.00	2.41	2.04	2.13	2.95	3.58	3.68	2.74	3.44	3.08	2.34
Thermocouple Iron Type JP	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.18	0.18	0.18	0.18	0.19
Mumetal	5.87	5.91	6.02	5.55	5.06	4.87	4.60	4.30	4.56	4.33	4.46	4.33

MEDICAL ALLOYS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BioDur® 108 Alloy	0.53	0.52	0.54	0.52	0.53	0.51	0.52	0.50	0.49	0.49	0.50	0.51
BioDur® 22Cr-13Ni-5Mn Stainless	1.36	1.39	1.39	1.32	1.24	1.20	1.16	1.08	1.12	1.08	1.11	1.11
BioDur® 316LS Stainless	1.48	1.50	1.50	1.42	1.34	1.28	1.24	1.16	1.20	1.17	1.19	1.17
BioDur® 470/Custom 470	1.05	1.08	1.08	1.03	0.95	0.92	0.88	0.84	0.87	0.84	0.86	0.84
BioDur® Carpenter CCM® Alloy	3.83	4.53	5.02	4.52	4.63	5.72	6.55	6.52	5.25	6.21	5.73	4.77
BioDur® TrimRite® Stainless	0.35	0.36	0.36	0.35	0.34	0.34	0.34	0.33	0.32	0.32	0.33	0.35
Micro-Melt® BioDur® Carpenter CCM® Alloy	3.83	4.53	5.02	4.52	4.63	5.72	6.55	6.52	5.25	6.21	5.73	4.77
Micro-Melt® BioDur® CCM Plus® Alloy	3.75	4.42	4.88	4.41	4.51	5.54	6.32	6.29	5.08	5.99	5.54	4.63
Micro-Melt® BioDur® CCM LS Alloy	3.83	4.53	5.02	4.52	4.63	5.72	6.55	6.52	5.25	6.21	5.73	4.77

CORROSION-RESISTANT ALLOYS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Carpenter Alloy C-276	6.36	6.50	6.52	6.14	5.75	5.55	5.32	4.88	5.01	4.84	4.96	4.90
Carpenter MP35N* Alloy	5.07	5.47	5.74	5.25	5.10	5.53	5.82	5.59	5.03	5.43	5.25	4.70
Carpenter MP35N* Alloy (Tubing)	10.14	10.94	11.48	10.50	10.20	11.06	11.64	11.18	10.06	10.86	10.50	9.40
Carpenter Nickel-Copper 400	5.61	5.64	5.75	5.30	4.82	4.66	4.40	4.17	4.44	4.25	4.36	4.21

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Raw Material and Energy Surcharges 2013 - USD/lb.

(applicable at time of shipment)

(corrected Alloy Steels section Nov. 6, 2013)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Carpenter Nickel-Copper 405	5.61	5.64	5.75	5.30	4.82	4.66	4.40	4.17	4.44	4.25	4.36	4.21
Custom Age 625 PLUS® Alloy	5.58	5.63	5.67	5.29	4.90	4.70	4.46	4.10	4.28	4.11	4.21	4.12
Carpenter Alloy 925	4.08	4.11	4.14	3.89	3.61	3.45	3.29	3.05	3.19	3.06	3.13	3.06

*MP35N is a trademark of SPS Technologies, Inc.

BEARING AND GEAR STEELS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
52100	0.30	0.30	0.30	0.32	0.32	0.32	0.30	0.30	0.30	0.29	0.29	0.31
52100T2	0.30	0.30	0.29	0.31	0.31	0.31	0.29	0.29	0.29	0.28	0.28	0.30
Aero-A6	0.35	0.35	0.35	0.35	0.36	0.36	0.34	0.34	0.34	0.33	0.33	0.35
BG-42	1.14	1.14	1.16	1.17	1.17	1.21	1.16	1.12	1.08	1.04	1.05	1.09
CBS 223	0.62	0.63	0.63	0.65	0.65	0.66	0.63	0.62	0.60	0.58	0.58	0.62
CBS 600	0.47	0.48	0.48	0.49	0.48	0.50	0.47	0.47	0.46	0.45	0.44	0.47
CBS50Nil	1.38	1.39	1.40	1.43	1.41	1.42	1.33	1.27	1.25	1.20	1.21	1.24
CSS-42L	1.45	1.42	1.54	1.54	1.53	1.70	1.67	1.64	1.48	1.51	1.42	1.27
Dynaflex	0.55	0.55	0.55	0.57	0.56	0.57	0.55	0.53	0.52	0.51	0.51	0.53
L-6490	0.95	0.96	0.97	0.98	0.97	1.02	0.97	0.93	0.90	0.87	0.87	0.91
Lesco® 53	0.95	0.96	0.97	0.98	0.96	0.98	0.92	0.89	0.87	0.84	0.84	0.88
Pyrowear® Alloy 53	0.95	0.96	0.97	0.98	0.96	0.98	0.92	0.89	0.87	0.84	0.84	0.88
M-50	1.06	1.06	1.08	1.09	1.08	1.13	1.08	1.04	1.01	0.97	0.97	1.01
QC61	1.55	1.50	1.65	1.67	1.65	1.77	1.67	1.66	1.50	1.56	1.45	1.16
QC64	1.46	1.41	1.55	1.57	1.55	1.68	1.60	1.59	1.43	1.49	1.38	1.13

ALLOY STEELS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
16NCD13	0.57	0.57	0.57	0.59	0.57	0.55	0.50	0.49	0.49	0.48	0.48	0.50
300M	0.48	0.48	0.48	0.49	0.48	0.47	0.43	0.43	0.43	0.42	0.42	0.44
3311	0.56	0.56	0.56	0.58	0.57	0.54	0.48	0.47	0.48	0.47	0.47	0.48
35NCD16	0.60	0.61	0.60	0.62	0.61	0.58	0.52	0.51	0.52	0.50	0.51	0.52
4130 , 4140, 4150	0.30	0.31	0.30	0.31	0.31	0.31	0.29	0.30	0.29	0.29	0.29	0.31
4319, 4320, 4343	0.46	0.46	0.46	0.47	0.47	0.45	0.41	0.41	0.41	0.40	0.40	0.42
4330+V, 4335+V	0.49	0.49	0.49	0.51	0.50	0.49	0.45	0.44	0.44	0.43	0.43	0.45
4340 VV	0.48	0.49	0.49	0.50	0.49	0.48	0.43	0.43	0.43	0.42	0.42	0.43
4340	0.45	0.46	0.46	0.47	0.46	0.45	0.41	0.41	0.41	0.40	0.40	0.41
4340L	0.50	0.51	0.51	0.52	0.51	0.50	0.45	0.45	0.45	0.44	0.44	0.45
4340L+	0.54	0.55	0.55	0.56	0.55	0.54	0.49	0.49	0.49	0.48	0.48	0.49
6150	0.31	0.31	0.31	0.32	0.32	0.32	0.30	0.30	0.30	0.30	0.29	0.31
8620	0.34	0.35	0.34	0.36	0.35	0.35	0.32	0.32	0.32	0.32	0.31	0.33
9310 VV	0.58	0.59	0.58	0.60	0.59	0.56	0.51	0.50	0.51	0.50	0.50	0.51
9310, 9315	0.55	0.56	0.55	0.57	0.56	0.53	0.51	0.47	0.48	0.47	0.47	0.48
AerMet® 100 Alloy	1.36	1.49	1.52	1.45	1.40	1.59	1.73	1.68	1.47	1.63	1.56	1.35
AerMet® 310 Alloy	1.38	1.55	1.57	1.49	1.44	1.67	1.83	1.80	1.55	1.73	1.64	1.41
AerMet® 340 Alloy	--	--	--	--	--	--	1.95	1.93	1.66	1.87	1.78	1.52

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Raw Material and Energy Surcharges 2013 - USD/lb.

(applicable at time of shipment)

(corrected Alloy Steels section Nov. 6, 2013)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
AF1410	1.44	1.41	1.52	1.54	1.52	1.60	1.81	1.77	1.37	1.40	1.32	1.11
Carpenter No. 158® Alloy	0.42	0.42	0.58	0.59	0.58	0.58	0.52	0.51	0.52	0.50	0.51	0.52
D6AC	0.46	0.46	0.46	0.47	0.46	0.47	0.44	0.43	0.43	0.41	0.41	0.44
GNB100	0.72	0.73	0.73	0.75	0.73	0.71	0.65	0.63	0.63	0.61	0.62	0.63
HP-9-4-20	1.16	1.16	1.19	1.22	1.19	1.18	1.06	1.03	1.02	1.00	0.99	0.92
HP-9-4-30	1.03	1.03	1.06	1.08	1.06	1.06	0.96	0.94	0.92	0.91	0.89	0.83
HTC	0.32	0.32	0.32	0.33	0.33	0.33	0.31	0.32	0.31	0.31	0.30	0.33
HY180	1.38	1.37	1.44	1.46	1.44	1.46	1.33	1.30	1.25	1.25	1.21	1.09
HYTUF	0.47	0.47	0.47	0.48	0.48	0.46	0.42	0.42	0.42	0.41	0.41	0.43
L-6305	0.38	0.38	0.38	0.39	0.39	0.39	0.37	0.37	0.36	0.35	0.35	0.37
NiMark® Alloy 250	1.92	2.02	2.08	1.91	1.80	1.85	1.88	1.79	1.69	1.75	1.73	1.61
NiMark+A273 Alloy 250-LR	1.92	2.02	2.08	1.91	1.80	1.85	1.88	1.79	1.69	1.75	1.73	1.61
NiMark® Alloy 300	1.95	2.07	2.14	1.95	1.84	1.93	1.96	1.87	1.75	1.83	1.80	1.66
Nitralloy 135	0.31	0.31	0.31	0.32	0.32	0.32	0.30	0.31	0.30	0.29	0.29	0.31
Nitralloy N	0.59	0.59	0.59	0.61	0.60	0.57	0.51	0.50	0.51	0.49	0.50	0.51
PremoMet® Alloy	0.52	0.53	0.71	0.72	0.72	0.67	0.67	0.60	0.60	0.58	0.59	0.60
QM54	1.92	1.91	1.96	1.97	1.93	1.94	1.84	1.80	1.75	1.74	1.71	1.61
UT-18	0.44	0.44	0.44	0.45	0.45	0.45	0.43	0.43	0.42	0.41	0.41	0.43
UT-19	0.64	0.65	0.65	0.67	0.65	0.62	0.56	0.54	0.55	0.54	0.54	0.55

SPECIALTY ALLOYS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
AEREX	16.59	16.64	16.64	16.66	16.30	15.10	14.35	14.00	14.36	13.73	13.63	12.83
JETHETE	1.38	1.40	1.40	1.44	1.40	1.32	1.15	1.10	1.15	1.10	1.13	1.11
QS53	1.64	1.59	1.70	1.70	1.68	1.83	1.78	1.77	1.46	1.48	1.42	1.29
XM-27	0.69	0.69	0.70	0.71	0.71	0.71	0.69	0.68	0.62	0.61	0.62	0.65

SPECIAL PURPOSE ALLOYS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
180 Alloy	4.29	4.33	4.38	4.05	3.74	3.68	3.50	3.38	3.60	3.52	3.57	3.46
CBX Cupron® Alloy	5.04	5.07	5.16	4.76	4.36	4.24	4.03	3.85	4.09	3.95	4.03	3.91
Cupron® Alloy	5.04	5.07	5.16	4.76	4.36	4.24	4.03	3.85	4.09	3.95	4.03	3.91
Evanohm® Alloy R	5.21	5.24	5.35	4.94	4.48	4.30	4.04	3.80	4.05	3.83	3.97	3.82
Manganin 13	3.40	3.44	3.48	3.22	3.01	2.99	2.87	2.79	2.96	2.94	2.95	2.89
NIAL Alloy	6.58	6.60	6.74	6.21	5.62	5.38	5.07	4.76	5.08	4.80	4.96	4.77
NIAL Alloy / Low Resistivity NIAL Alloy	6.58	6.60	6.74	6.21	5.62	5.38	5.07	4.76	5.08	4.80	4.96	4.77
PCLW-SNX Alloy	3.52	3.57	3.59	3.34	3.10	3.10	2.97	2.91	3.08	3.07	3.08	3.01
Tophel® Alloy	6.28	6.31	6.45	5.94	5.38	5.16	4.86	4.57	4.86	4.60	4.76	4.58
Tophet® Alloy A	5.66	5.69	5.81	5.36	4.86	4.66	4.39	4.13	4.40	4.16	4.31	4.15
Tophet® Alloy C	4.29	4.31	4.40	4.07	3.69	3.54	3.34	3.15	3.34	3.16	3.27	3.16

VALVE STEELS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Raw Material and Energy Surcharges 2013 - USD/lb.
 (applicable at time of shipment)
 (corrected Alloy Steels section Nov. 6, 2013)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Pyromet® Alloy 31V	4.72	4.74	4.81	4.47	4.11	3.90	3.70	3.40	3.60	3.43	3.52	3.42
Pyromet® Alloy 751 Alloy	4.80	4.81	4.92	4.51	4.07	3.82	3.57	3.29	3.53	3.32	3.44	3.31
Pyromet® Alloy 80A Valve	5.28	5.30	5.41	4.98	4.50	4.24	3.98	3.67	3.92	3.70	3.82	3.68

HIGH SPEED STEELS (not applicable to powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
M1 - Tatmo	1.69	1.70	1.71	1.70	1.67	1.74	1.72	1.65	1.60	1.55	1.55	1.61
M2 - Double 6	2.90	2.86	2.82	2.79	2.74	2.76	2.84	2.80	2.77	2.73	2.73	2.77
M2 - Double 6-XL	2.90	2.86	2.82	2.79	2.74	2.76	2.84	2.80	2.77	2.73	2.73	2.77
M2 - HS29	2.80	2.76	2.73	2.70	2.64	2.67	2.74	2.70	2.67	2.63	2.63	2.67
M2 - HS29-XL	2.80	2.76	2.73	2.70	2.64	2.67	2.74	2.70	2.67	2.63	2.63	2.67
M3I - Corsair	2.80	2.76	2.73	2.71	2.66	2.68	2.74	2.70	2.67	2.63	2.63	2.64
M3II - Crusader	2.88	2.84	2.81	2.79	2.74	2.77	2.82	2.77	2.75	2.70	2.70	2.74
M4 - Stark	2.74	2.70	2.67	2.68	2.63	2.65	2.68	2.64	2.61	2.56	2.57	2.60
M7 - Tatmo-VN	1.87	1.87	1.88	1.88	1.85	1.92	1.89	1.82	1.77	1.71	1.71	1.77
M11 - Vancomo	1.50	1.51	1.54	1.54	1.52	1.61	1.57	1.50	1.43	1.39	1.38	1.42
M33 - Kelvan	1.98	1.96	2.03	2.01	1.98	2.14	2.14	2.08	1.95	1.93	1.88	1.84
M35 - HS 105	2.85	2.79	2.79	2.76	2.71	2.78	2.86	2.83	2.76	2.74	2.72	2.69
M42 - Dynamax	1.91	1.89	1.96	1.94	1.92	2.07	2.06	2.00	1.88	1.86	1.81	1.77
M50 - CM-50	0.86	0.86	0.88	0.89	0.88	0.91	0.88	0.84	0.81	0.78	0.78	0.82
M52 - CM52	2.14	2.11	2.09	2.08	2.04	2.07	2.10	2.06	2.03	2.00	2.00	2.03
T15 - Dynavan	4.44	4.32	4.26	4.23	4.15	4.16	4.33	4.33	4.29	4.28	4.25	4.19
Abscido	1.68	1.65	1.64	1.65	1.63	1.64	1.64	1.62	1.60	1.57	1.57	1.59
Supersaw	1.27	1.24	1.30	1.30	1.29	1.40	1.40	1.37	1.27	1.28	1.23	1.16

TOOL STEELS (not applicable to powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A2 - Select-B	0.43	0.44	0.44	0.45	0.45	0.46	0.43	0.43	0.42	0.41	0.40	0.43
A6 - Lesco A6	0.39	0.39	0.39	0.40	0.40	0.41	0.39	0.39	0.37	0.36	0.36	0.39
A7 - BR-3	1.01	0.99	1.01	1.07	1.07	1.07	1.00	0.96	0.96	0.92	0.92	0.94
A7 - Brickmold	1.04	1.02	1.04	1.10	1.10	1.10	1.03	0.99	0.99	0.95	0.95	0.97
A8 - MGR	0.82	0.81	0.81	0.81	0.80	0.81	0.80	0.80	0.78	0.77	0.77	0.80
A8+ - MGR-MQ	0.82	0.81	0.80	0.81	0.80	0.81	0.80	0.80	0.78	0.77	0.77	0.79
A9 - Mazeman	0.70	0.71	0.71	0.73	0.73	0.73	0.69	0.66	0.65	0.63	0.63	0.65
A10 - Graph-Air	0.56	0.57	0.57	0.58	0.57	0.57	0.53	0.52	0.51	0.49	0.49	0.52
A18 - Whitebear	0.76	0.76	0.77	0.80	0.80	0.81	0.76	0.74	0.73	0.70	0.70	0.72
D2 - Olympic	0.55	0.54	0.55	0.57	0.57	0.57	0.54	0.53	0.52	0.51	0.51	0.53
D3 - GSN	0.37	0.37	0.37	0.39	0.39	0.38	0.37	0.37	0.36	0.35	0.36	0.37
D4 - GSN+Mo	0.49	0.49	0.49	0.51	0.51	0.51	0.49	0.48	0.47	0.46	0.46	0.48
D5 - Riptide	0.45	0.44	0.46	0.47	0.47	0.51	0.49	0.49	0.46	0.46	0.45	0.43
D7 - BR-4	0.99	0.97	0.98	1.04	1.04	1.04	0.98	0.95	0.94	0.90	0.91	0.92
H10 - Dart	0.55	0.56	0.56	0.57	0.57	0.59	0.56	0.54	0.53	0.51	0.51	0.54
H11 - Dycast	0.49	0.49	0.49	0.51	0.51	0.51	0.49	0.48	0.47	0.45	0.45	0.48

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Raw Material and Energy Surcharges 2013 - USD/lb.

(applicable at time of shipment)

(corrected Alloy Steels section Nov. 6, 2013)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
H11+ - Dycast-VAR	0.49	0.49	0.49	0.51	0.51	0.51	0.49	0.48	0.47	0.45	0.45	0.48
H12 - L.P.D.®	0.87	0.87	0.86	0.86	0.85	0.85	0.86	0.85	0.84	0.82	0.82	0.85
H13 - VDC®	0.57	0.57	0.58	0.60	0.59	0.60	0.57	0.56	0.55	0.53	0.53	0.55
H13+ - VDC-MQ	0.57	0.57	0.58	0.60	0.59	0.60	0.57	0.56	0.55	0.53	0.53	0.55
H13++ - VDC-RF	0.56	0.56	0.56	0.58	0.58	0.59	0.56	0.55	0.53	0.52	0.52	0.54
H13-FM - Viscount	0.57	0.57	0.58	0.60	0.59	0.60	0.57	0.56	0.55	0.53	0.53	0.55
H14 - Lumdie	1.50	1.47	1.43	1.41	1.38	1.37	1.43	1.45	1.44	1.44	1.43	1.45
H19 - Lesco19	1.87	1.82	1.82	1.82	1.79	1.82	1.87	1.87	1.83	1.83	1.81	1.76
H21 - CLW	2.93	2.86	2.78	2.73	2.67	2.64	2.79	2.81	2.81	2.80	2.80	2.81
H26 - H26 Mod	5.59	5.45	5.30	5.20	5.06	5.02	5.34	5.37	5.36	5.36	5.35	5.36
H43 - Lesco 43	1.42	1.43	1.46	1.47	1.45	1.52	1.46	1.39	1.34	1.28	1.29	1.34
L6 - Montana	1.58	1.56	1.52	1.50	1.47	1.45	1.50	1.50	1.50	1.49	1.49	1.51
O1 - Badger	0.41	0.41	0.40	0.41	0.41	0.40	0.40	0.40	0.40	0.39	0.39	0.41
O6 - Graph-Mo	0.30	0.30	0.30	0.31	0.31	0.31	0.29	0.29	0.29	0.28	0.28	0.30
O7 - Lesco O7	0.7	0.69	0.67	0.68	0.67	0.66	0.67	0.68	0.68	0.67	0.67	0.69
S1 - XL®-Chisel	0.89	0.87	0.85	0.86	0.84	0.83	0.85	0.86	0.85	0.85	0.85	0.86
S2 - Trident	0.34	0.34	0.34	0.36	0.35	0.36	0.34	0.33	0.33	0.32	0.32	0.34
S4 - Damascus	0.26	0.26	0.26	0.27	0.27	0.27	0.25	0.26	0.25	0.25	0.25	0.26
S5 - Lanark	0.43	0.43	0.43	0.45	0.44	0.45	0.43	0.42	0.41	0.40	0.40	0.42
S7 - Bearcat	0.44	0.44	0.44	0.45	0.45	0.46	0.44	0.43	0.42	0.41	0.41	0.43
S7+ - S7-MQ	0.44	0.44	0.44	0.44	0.45	0.46	0.44	0.43	0.42	0.41	0.41	0.43
CAT4039	0.56	0.56	0.57	0.58	0.58	0.59	0.56	0.55	0.53	0.51	0.51	0.54
Chipper	0.551	0.52	0.52	0.53	0.53	0.54	0.51	0.50	0.49	0.48	0.48	0.50
HC-H13	0.61	0.61	0.62	0.64	0.63	0.65	0.61	0.60	0.58	0.56	0.56	0.59
Lescowear	1.12	1.10	1.10	1.13	1.12	1.12	1.10	1.07	1.06	1.04	1.04	1.06
LSC2367	0.69	0.70	0.71	0.72	0.71	0.74	0.70	0.68	0.66	0.64	0.64	0.67
Mandrel	0.50	0.51	0.51	0.53	0.52	0.50	0.45	0.44	0.45	0.44	0.44	0.45
Staminal®	0.53	0.53	0.53	0.55	0.54	0.53	0.48	0.47	0.47	0.46	0.46	0.47
Typlex	0.67	0.68	0.68	0.70	0.69	0.67	0.61	0.59	0.60	0.57	0.57	0.59
420-FM - Saxman-FM	0.40	0.40	0.40	0.42	0.42	0.42	0.40	0.40	0.39	0.38	0.39	0.41
420SS - Saxman6R	0.40	0.40	0.40	0.42	0.42	0.42	0.40	0.40	0.39	0.38	0.38	0.40

Micro-Melt® High Speed Steels (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Micro-Melt® 23						2.58	2.64	2.70	2.72	2.70	2.73	2.77
Micro-Melt® 30						2.56	2.62	2.68	2.70	2.72	2.69	2.63
Micro-Melt® 60						3.23	3.28	3.30	3.30	3.29	3.26	3.19
Micro-Melt® HS30						2.50	2.56	2.62	2.64	2.64	2.61	2.55
Micro-Melt® M4						2.52	2.57	2.60	2.62	2.60	2.62	2.66
Micro-Melt® M4T2 Plus						2.46	2.51	2.54	2.56	2.55	2.54	2.51
Micro-Melt® M11						1.69	1.68	1.64	1.59	1.57	1.57	1.61
Micro-Melt®M48LS						3.29	3.41	3.52	3.57	3.60	3.56	3.51
Micro-Melt® M48HS						3.29	3.41	3.52	3.57	3.60	3.56	3.51

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Raw Material and Energy Surcharges 2013 - USD/lb.

(applicable at time of shipment)

(corrected Alloy Steels section Nov. 6, 2013)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Micro-Melt® M62						2.90	2.97	2.99	2.98	2.95	2.97	3.05
Micro-Melt® Maxamet®						3.77	3.92	4.08	4.19	4.22	4.19	4.10
Micro-Melt® T5						4.11	4.37	4.63	4.80	4.85	4.82	4.75
Micro-Melt® T15						3.48	3.63	3.76	3.89	3.91	3.90	3.87
Micro-Melt® T15 Plus						3.34	3.46	3.58	3.66	3.68	3.66	3.60

Micro-Melt® Cold Work Tool Steels (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Micro-Melt® CD#1						0.84	0.82	0.80	0.79	0.77	0.77	0.79
Micro-Melt® PD#1						1.16	1.16	1.15	1.15	1.14	1.14	1.17
Micro-Melt® PD#5						1.44	1.43	1.43	1.43	1.42	1.42	1.44
Micro-Melt® A11LVC						1.79	1.74	1.69	1.65	1.62	1.64	1.64
Micro-Melt® A11						1.83	1.77	1.72	1.68	1.65	1.66	1.66
Micro-Melt® Thermowear						0.84	0.82	0.80	0.79	0.76	0.76	0.79
Micro-Melt® MCV12						2.08	2.02	1.95	1.91	1.87	1.89	1.89
Micro-Melt® 420CW						1.85	1.80	1.74	1.71	1.68	1.70	1.70