

Raw Material and Energy Surcharges 2019 - USD/lb.

(applicable at time of shipment)



If an alloy you purchase is not listed, call Carpenter within the U.S. at 800-654-6543.
Outside the U.S., call 1-610-208-2000, press 2 for Customer Service.

STAINLESS STEELS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® 15-15HS® Stainless	0.69	0.63	0.64	0.65	0.65							
CarTech® 15-15LC® Modified Stainless	0.70	0.62	0.64	0.65	0.65							
CarTech® 20Cb-3® Stainless	1.78	1.81	2.07	2.18	2.14							
CarTech® 20Mo-6® Stainless	2.11	2.13	2.40	2.53	2.48							
CarTech® 302HQ-FM® Stainless	0.64	0.62	0.68	0.70	0.70							
CarTech® 316L-SCQ® Stainless	0.99	0.95	1.05	1.10	1.09							
CarTech® 13-8 Stainless	0.81	0.76	0.83	0.88	0.86							
CarTech® 15Cr-5Ni	0.57	0.52	0.57	0.58	0.59							
CarTech® 18Cr-2Ni-12Mn	0.52	0.47	0.48	0.48	0.49							
CarTech® 18Cr-3Ni-12Mn	0.57	0.52	0.55	0.55	0.56							
CarTech® 21Cr-6Ni-9Mn	0.65	0.61	0.65	0.68	0.68							
CarTech® 22Cr-13Ni-5Mn	1.05	1.02	1.12	1.17	1.15							
CarTech® 275 Stainless	0.77	0.74	0.82	0.87	0.85							
CarTech® 302HQ-SFQ Stainless	0.64	0.62	0.68	0.70	0.70							
CarTech® Custom 631 (17Cr-7Ni)	0.57	0.53	0.58	0.60	0.60							
CarTech® 15-7PH Stainless	0.80	0.75	0.81	0.84	0.83							
CarTech® Custom 630 (17Cr-4Ni) Stainless	0.53	0.49	0.54	0.54	0.55							
CarTech® No. 5-F Stainless (Type 416 Mod)	0.33	0.28	0.28	0.28	0.28							
CarTech® 302 Stainless	0.60	0.58	0.64	0.66	0.66							
CarTech® 303 Stainless	0.60	0.58	0.64	0.66	0.66							
CarTech® 303 Se Stainless	0.60	0.58	0.64	0.66	0.66							
CarTech® 304/304L Stainless	0.66	0.63	0.69	0.73	0.72							
CarTech® 305 Stainless	0.72	0.71	0.79	0.82	0.82							
CarTech® 309 Stainless	0.82	0.81	0.90	0.93	0.93							
CarTech® 310 Stainless	1.06	1.06	1.21	1.27	1.25							
CarTech® 316/316L Stainless	0.96	0.92	1.02	1.07	1.06							
CarTech® 316L Stainless	0.96	0.92	1.02	1.07	1.06							
CarTech® 321 Stainless	0.69	0.68	0.75	0.77	0.77							

Carpenter reserves the right to change base values and/or add producer premiums to accurately reflect the changes in raw material markets and prices.

Raw Material and Energy Surcharges 2019 - USD/lb.
(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® 347 Stainless	0.69	0.68	0.76	0.79	0.78							
CarTech® 403 Stainless	0.33	0.27	0.27	0.27	0.28							
CarTech® 410 Stainless	0.33	0.27	0.27	0.27	0.28							
CarTech® 416 Stainless	0.33	0.28	0.28	0.28	0.28							
CarTech® 416 (No. 5) Stainless	0.33	0.28	0.28	0.28	0.28							
CarTech® 416 RS Stainless	0.33	0.28	0.28	0.28	0.28							
CarTech® 416BQ Stainless (No. 5BQ)	0.33	0.28	0.28	0.28	0.28							
CarTech® 420 Stainless	0.33	0.28	0.28	0.28	0.28							
CarTech® 420 Mod Stainless	0.33	0.28	0.28	0.28	0.28							
CarTech® 420F Stainless	0.33	0.28	0.28	0.28	0.28							
CarTech® 430 Stainless	0.35	0.29	0.30	0.30	0.31							
CarTech® 430F Stainless	0.35	0.29	0.30	0.30	0.31							
CarTech® 430FR Stainless	0.35	0.29	0.30	0.30	0.31							
CarTech® 431 Stainless	0.41	0.35	0.36	0.38	0.38							
CarTech® 434 Stainless	0.47	0.39	0.40	0.42	0.42							
CarTech® 440A Stainless	0.35	0.29	0.30	0.30	0.31							
CarTech® 440C Stainless	0.35	0.29	0.30	0.30	0.31							
CarTech® 440F-Se Stainless	0.35	0.29	0.30	0.30	0.31							
CarTech® 446 Stainless	0.40	0.33	0.34	0.34	0.35							
CarTech® 204-Cu Stainless	0.65	0.59	0.62	0.64	0.64							
CarTech® Consumet® 304L-SCQ	0.60	0.58	0.64	0.66	0.66							
CarTech® Custom 450® Stainless	0.65	0.60	0.66	0.68	0.68							
CarTech® Custom 455® Stainless	0.63	0.61	0.68	0.70	0.69							
CarTech® Custom 465® Stainless	0.77	0.75	0.83	0.87	0.85							
CarTech® Custom 475™ Stainless	2.96	2.05	1.42	1.15	1.39							
CarTech® Custom Flo 302HQ Stainless	0.64	0.62	0.68	0.70	0.70							
CarTech® EnduraMet® 2205 Stainless	0.88	0.81	0.87	0.91	0.91							
CarTech® Gall-Tough® PLUS Stainless	0.76	0.71	0.78	0.82	0.81							
CarTech® Gall-Tough® Stainless	0.49	0.44	0.48	0.49	0.49							
CarTech® 15Cr-5Ni Project 70+® Stainless	0.57	0.52	0.57	0.58	0.59							
CarTech® Custom 630 Project 70+® Stainless	0.57	0.53	0.58	0.58	0.59							

Carpenter reserves the right to change base values and/or add producer premiums to accurately reflect the changes in raw material markets and prices.

Raw Material and Energy Surcharges 2019 - USD/lb.
(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® 303 Project 70+® Escomatic Quality	0.64	0.62	0.68	0.70	0.70							
CarTech® 303 Project 70+® Stainless	0.64	0.62	0.68	0.70	0.70							
CarTech® 304/304L Project 70+® Stainless	0.66	0.63	0.69	0.73	0.72							
CarTech® 316/316L Project 70+® Stainless	1.00	0.96	1.06	1.11	1.10							
CarTech® 416 Project 70+® Stainless	0.33	0.28	0.28	0.28	0.28							
CarTech® Pyrowear® 675 Stainless	2.11	1.48	1.04	0.83	0.92							
CarTech® SCF 19® Alloy	1.44	1.39	1.53	1.63	1.60							
CarTech® 304H Stainless	0.62	0.59	0.65	0.69	0.68							
CarTech® 410 Mod Stainless	0.33	0.27	0.27	0.27	0.28							
CarTech® TrimRite® Stainless	0.44	0.36	0.38	0.40	0.40							
CarTech® 409Cb Stainless	0.33	0.26	0.26	0.26	0.27							
CarTech® 409Cb High Nickel Stainless	0.35	0.29	0.30	0.31	0.31							
CarTech® 2507 Super Duplex Stainless	0.99	0.90	0.96	1.02	1.01							
CarTech® Ni-Cu K500	2.88	3.09	3.60	3.77	3.70							

AEROSPACE AND HIGH TEMPERATURE ALLOYS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® A-286 Alloy	1.42	1.45	1.64	1.69	1.62							
CarTech® Alloy 2 (159 ALY / MP159)	19.21	15.32	13.43	12.12	12.00							
CarTech® 636 (422 SS)	1.02	0.87	0.86	0.83	0.72							
CarTech® Greek Ascology (418 SS)	0.93	0.82	0.84	0.84	0.84							
CarTech® L-605 Alloy	19.23	13.98	9.86	7.57	9.25							
CarTech® Waspaloy	6.96	5.76	5.07	4.62	4.92							
CarTech® 350 (Pyromet® 350)	0.80	0.73	0.77	0.81	0.80							
CarTech® 355 (Pyromet® 355)	0.79	0.72	0.76	0.80	0.79							
CarTech® 41 (Pyromet® 41)	6.88	5.86	5.37	5.09	5.28							
CarTech® 600 (Pyromet® 600)	2.36	2.59	3.10	3.27	3.12							
CarTech® 625 (Pyromet® 625)	4.18	4.26	4.82	5.03	4.80							
CarTech® 680 (Pyromet® 680)	4.27	4.09	4.33	4.42	4.22							
CarTech® 706 (Pyromet® 706)	2.28	2.37	2.73	2.81	2.66							
CarTech® 718 (Pyromet® 718)	3.28	3.39	3.89	4.02	3.80							

Carpenter reserves the right to change base values and/or add producer premiums to accurately reflect the changes in raw material markets and prices.

Raw Material and Energy Surcharges 2019 - USD/lb.
(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® 720 (Pyromet® 720)	7.14	5.83	5.03	4.52	4.88							
CarTech® 80A (Pyromet® 80A)	2.68	2.92	3.44	3.62	3.43							
CarTech® 882 (Pyromet® 882)	0.51	0.43	0.44	0.46	0.46							
CarTech® 901 (Pyromet® 901)	2.50	2.56	2.90	3.05	2.91							
CarTech® CTX-1 (Pyromet® CTX-1)	5.78	4.42	3.51	2.92	3.37							
CarTech® CTX-3 (Pyromet® CTX-3)	5.68	4.42	3.64	3.06	3.46							
CarTech® CTX-909 (Pyromet® CTX-909)	5.67	4.40	3.63	3.04	3.44							
CarTech® X-750 (Pyromet® X-750)	2.35	2.58	3.08	3.24	3.09							
CarTech® Thermo-Span® Alloy	10.42	7.62	5.54	4.24	5.15							
CarTech® 286-LNi Alloy	1.22	1.22	1.34	1.37	1.28							

MAGNETIC, CONTROLLED EXPANSION AND ELECTRICAL ALLOYS

Alloy Description

CarTech® 485 Alloy	1.70	1.84	2.17	2.28	2.22							
CarTech® 22-3 High Thermal Expansion	0.96	1.00	1.15	1.20	1.18							
CarTech® Electrical Iron	0.27	0.21	0.22	0.22	0.22							
CarTech® Glass Sealing "42-6"	1.63	1.74	2.04	2.14	2.08							
CarTech® Glass Sealing 42	1.54	1.66	1.94	2.04	1.99							
CarTech® Glass Sealing 52	1.83	1.99	2.35	2.47	2.40							
CarTech® High Permeability "49"® Alloy	1.69	1.83	2.17	2.28	2.22							
CarTech® HyMu "80"® Alloy	3.12	3.37	3.95	4.17	4.05							
CarTech® HyMu "80"® Mark II Alloy	3.12	3.37	3.95	4.17	4.05							
CarTech® HyMu "80"® Mark III Alloy	3.12	3.37	3.95	4.17	4.05							
CarTech® HyMu "800"	3.21	3.45	4.03	4.26	4.14							
CarTech® Invar 36 Alloy	1.38	1.47	1.74	1.82	1.77							
CarTech® Low Expansion "42"® Alloy	1.54	1.66	1.94	2.04	1.99							
CarTech® Low Expansion "42"® Thermostat	1.54	1.66	1.94	2.04	1.99							
CarTech® Low Expansion 43-PH	1.62	1.73	2.03	2.14	2.08							
CarTech® Nickel 200 Alloy	3.35	3.71	4.40	4.63	4.51							
CarTech® Nickel 201 Alloy	3.28	3.64	4.33	4.56	4.44							
CarTech® Nickel 205 Alloy	3.28	3.64	4.33	4.56	4.44							

Carpenter reserves the right to change base values and/or add producer premiums to accurately reflect the changes in raw material markets and prices.

Raw Material and Energy Surcharges 2019 - USD/lb.
(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® Silicon Core Iron "A-FM"	0.22	0.16	0.17	0.17	0.17							
CarTech® Silicon Core Iron "B"	0.26	0.20	0.21	0.21	0.21							
CarTech® Silicon Core Iron "B-FM"	0.26	0.20	0.21	0.21	0.21							
CarTech® Temperature Compensator "30"® Type 2	1.12	1.19	1.41	1.48	1.44							
CarTech® Temperature Compensator "30"® Type 4	1.12	1.19	1.41	1.48	1.44							
CarTech® Temperature Compensator "32"	1.20	1.28	1.51	1.59	1.55							
CarTech® Chrome Core® 8-FM Alloy	0.34	0.27	0.29	0.29	0.30							
CarTech® Chrome Core® 12-FM Alloy	0.36	0.30	0.31	0.31	0.32							
CarTech® Chrome Core® 13-FM	0.37	0.31	0.32	0.32	0.32							
CarTech® Chrome Core® 13-XP	0.82	0.70	0.70	0.67	0.58							
CarTech® Chrome Core® 18-FM Alloy	0.56	0.47	0.48	0.50	0.51							
CarTech® Free-Cut Invar "36"® Alloy	1.38	1.47	1.74	1.82	1.77							
CarTech® High Expansion 20Ni-6Mn	0.94	0.97	1.12	1.15	1.13							
CarTech® High Expansion 72	2.51	2.53	2.64	2.61	2.61							
CarTech® Hiperco® 27 Alloy	8.33	5.63	3.38	2.15	3.09							
CarTech® Hiperco® 50 Alloy	15.86	10.86	6.76	4.42	5.94							
CarTech® Hiperco® 50 HS Alloy	15.79	10.79	6.69	4.35	5.87							
CarTech® Hiperco® 50A Alloy	15.86	10.86	6.76	4.42	5.94							
CarTech® Hy Mu 77 Alloy	2.70	2.97	3.52	3.70	3.60							
CarTech® Hy-Ra "49"® Alloy	1.69	1.83	2.17	2.28	2.22							
CarTech® Kovar® Alloy	4.89	3.29	2.08	1.48	1.93							
CarTech® MagneDur® 20-4 Alloy	1.30	1.30	1.47	1.54	1.51							
CarTech® No. 1 JR® Type 1 Alloy	0.33	0.28	0.28	0.28	0.28							
CarTech® No. 1 JR® Type 2 Alloy	0.33	0.28	0.28	0.28	0.28							
CarTech® Rotelloy 3 Alloy	15.86	10.86	6.76	4.42	5.94							
CarTech® Rotelloy 8 Alloy	15.79	10.79	6.69	4.35	5.87							
CarTech® Thermocouple Iron Type JP	0.19	0.13	0.14	0.14	0.14							
CarTech® Mumetal	3.13	3.34	3.91	4.13	4.01							
CarTech® Hypocore	1.35	0.81	0.40	0.20	0.34							
CarTech® High Expansion 25-8	1.08	1.13	1.31	1.37	1.33							
CarTech® Low Expansion 50	1.82	1.98	2.34	2.46	2.39							

Carpenter reserves the right to change base values and/or add producer premiums to accurately reflect the changes in raw material markets and prices.

Raw Material and Energy Surcharges 2019 - USD/lb.
(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® Low Expansion 40	1.51	1.63	1.91	2.00	1.95							
CarTech® Low Expansion 45	1.60	1.73	2.05	2.15	2.09							
CarTech® High Expansion 19-7	0.89	0.91	1.04	1.09	1.06							
CarTech® High Expansion 19-2	0.88	0.90	1.04	1.09	1.07							
CarTech® Low Expansion 38-7	1.48	1.58	1.84	1.93	1.88							

MEDICAL ALLOYS

Alloy Description

CarTech® BioDur® 108 Alloy	0.67	0.60	0.61	0.60	0.61							
CarTech® BioDur® 22Cr-13Ni-5Mn Stainless	1.05	1.02	1.12	1.17	1.15							
CarTech® BioDur® 316LS Stainless	1.11	1.07	1.19	1.26	1.24							
CarTech® BioDur® 470/Custom 470	0.76	0.74	0.83	0.87	0.84							
CarTech® BioDur® Carpenter CCM® Alloy	20.84	15.44	10.08	7.17	9.32							
CarTech® BioDur® TrimRite® Stainless	0.44	0.36	0.38	0.40	0.40							
CarTech® Micro-Melt® BioDur® Carpenter CCM® Alloy	20.84	15.44	10.08	7.17	9.32							
CarTech® Micro-Melt® BioDur® CCM Plus®	19.83	14.70	9.62	6.86	8.89							
CarTech® Micro-Melt® BioDur® CCM LS Alloy	20.84	15.44	10.08	7.17	9.32							

CORROSION-RESISTANT ALLOYS

Alloy Description

CarTech® Alloy C-276	6.21	5.94	6.34	6.44	5.84							
CarTech® MP35N* Alloy	18.49	16.05	14.44	13.33	13.15							
CarTech® MP35N* Alloy (Tubing)	36.97	32.11	28.88	26.66	26.30							
CarTech® Ni-Cu 400	3.02	3.22	3.74	3.92	3.84							
CarTech® Ni-Cu 405	3.02	3.22	3.74	3.92	3.84							
CarTech® Custom Age 625 PLUS® Alloy	4.02	4.11	4.64	4.86	4.62							
CarTech® 925	2.70	2.77	3.08	3.21	3.06							

*MP35N is a trademark of SPS Technologies, Inc.

Raw Material and Energy Surcharges 2019 - USD/lb.

(applicable at time of shipment)



Alloy Description

Jan Feb Mar Apr **May** Jun Jul Aug Sep Oct Nov Dec

BEARING AND GEAR STEELS

CarTech® 52100	0.39	0.34	0.32	0.30	0.29							
CarTech® 52100T2	0.39	0.33	0.32	0.30	0.29							
CarTech® Aero-A6	0.55	0.49	0.47	0.45	0.44							
CarTech® BG-42	2.25	2.09	2.02	2.01	1.93							
CarTech® CBS 223	1.12	1.02	0.99	0.97	0.93							
CarTech® CBS 600	0.65	0.58	0.57	0.56	0.55							
CarTech® CBS50Nil	2.27	2.12	2.10	2.10	2.02							
CarTech® CSS-42L	5.86	5.41	5.09	4.84	4.51							
CarTech® Dynaflex	0.99	0.90	0.86	0.84	0.81							
CarTech® L-6490	1.78	1.65	1.60	1.61	1.54							
CarTech® Lesco® 53	1.18	1.09	1.10	1.13	1.09							
CarTech® Pyrowear® Alloy 53	1.18	1.09	1.10	1.13	1.09							
CarTech® M-50	2.00	1.85	1.80	1.81	1.74							
CarTech® QC61	6.74	6.26	5.89	5.51	5.11							
CarTech® QC64	6.35	5.88	5.54	5.20	4.82							

ALLOY STEELS

Alloy Description

CarTech® 16NCD13	0.53	0.49	0.50	0.49	0.49							
CarTech® 300M	0.55	0.50	0.50	0.49	0.48							
CarTech® 3311	0.50	0.47	0.48	0.47	0.46							
CarTech® 35NCD16	0.50	0.48	0.50	0.49	0.49							
CarTech® 4130 , 4140, 4150	0.40	0.35	0.33	0.32	0.31							
CarTech® 4319, 4320, 4343	0.47	0.43	0.43	0.42	0.41							
CarTech® 4330+V, 4335+V	0.56	0.51	0.51	0.50	0.49							
CarTech® 4340 VV	0.50	0.46	0.46	0.44	0.43							
CarTech® 4340	0.47	0.43	0.43	0.42	0.41							
CarTech® 4340L	0.52	0.47	0.47	0.46	0.45							
CarTech® 4340L+	0.56	0.52	0.52	0.50	0.49							
CarTech® 6150	0.53	0.47	0.44	0.42	0.41							

Carpenter reserves the right to change base values and/or add producer premiums to accurately reflect the changes in raw material markets and prices.

Raw Material and Energy Surcharges 2019 - USD/lb.
(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® 8620	0.41	0.36	0.35	0.34	0.33							
CarTech® 9310 V V	0.54	0.50	0.51	0.51	0.50							
CarTech® 9310, 9315	0.51	0.47	0.48	0.48	0.47							
CarTech® AerMet® 100 Alloy	4.63	3.35	2.34	1.78	2.21							
CarTech® AerMet® 310 Alloy	5.21	3.72	2.56	1.92	2.42							
CarTech® AerMet® 340 Alloy	5.48	3.91	2.72	2.05	2.57							
CarTech® AF1410	5.13	4.79	4.54	4.28	3.98							
CarTech® No. 158® Alloy	0.54	0.50	0.51	0.50	0.49							
CarTech® D6AC	0.58	0.53	0.52	0.52	0.51							
CarTech® GNB100	0.83	0.79	0.79	0.79	0.77							
CarTech® HP-9-4-20	2.15	2.04	2.00	1.93	1.82							
CarTech® HP-9-4-30	2.03	1.91	1.86	1.79	1.69							
CarTech® HTC	0.40	0.36	0.35	0.34	0.34							
CarTech® HY180	3.38	3.18	3.07	2.93	2.74							
CarTech® HYTUF	0.51	0.49	0.49	0.49	0.49							
CarTech® L-6305	0.61	0.56	0.54	0.52	0.51							
CarTech® NiMark® Alloy 250	3.43	2.68	2.21	1.95	2.18							
CarTech® NiMark+A273 Alloy 250-LR	3.43	2.68	2.21	1.95	2.18							
CarTech® NiMark® Alloy 300	3.82	2.94	2.37	2.05	2.32							
CarTech® Nitralloy 135	0.38	0.34	0.33	0.32	0.31							
CarTech® Nitralloy N	0.51	0.49	0.50	0.50	0.50							
CarTech® PremoMax® Alloy	0.71	0.64	0.62	0.63	0.61							
CarTech® PremoMet® Alloy	0.63	0.59	0.79	0.79	0.76							
CarTech® QM54	3.63	3.43	3.33	3.20	3.01							
CarTech® UT-18	0.65	0.60	0.58	0.57	0.56							
CarTech® UT-19	0.54	0.52	0.54	0.54	0.53							

Carpenter reserves the right to change base values and/or add producer premiums to accurately reflect the changes in raw material markets and prices.

Raw Material and Energy Surcharges 2019 - USD/lb.

(applicable at time of shipment)



Alloy Description

Jan Feb Mar Apr **May** Jun Jul Aug Sep Oct Nov Dec

SPECIALTY ALLOYS

CarTech® AEREX	24.69	23.82	23.42	22.71	21.51							
CarTech® JETHETE	0.96	0.96	1.05	1.08	1.05							
CarTech® QS53	4.29	3.99	3.77	3.56	3.32							
CarTech® XM-27	0.86	0.78	0.75	0.72	0.69							

SPECIAL PURPOSE ALLOYS

Alloy Description

CarTech® 180 Alloy	2.77	2.78	3.10	3.20	3.20							
CarTech® CBX Cupron® Alloy	2.95	3.05	3.48	3.62	3.59							
CarTech® Cupron® Alloy	2.95	3.05	3.48	3.62	3.59							
CarTech® Evanohm® Alloy R	2.66	2.90	3.42	3.59	3.50							
CarTech® Manganin 13	2.48	2.40	2.62	2.68	2.70							
CarTech® NIAL Alloy	3.23	3.57	4.24	4.46	4.34							
CarTech® NIAL Alloy / Low Resistivity NIAL	3.23	3.57	4.24	4.46	4.34							
CarTech® PCLW-SNX Alloy	2.52	2.42	2.63	2.70	2.73							
CarTech® Tophel® Alloy	3.13	3.45	4.08	4.29	4.17							
CarTech® Tophet® Alloy A	2.88	3.14	3.70	3.89	3.79							
CarTech® Tophet® Alloy C	2.23	2.41	2.83	2.98	2.91							

VALVE STEELS

Alloy Description

CarTech® 31V (Pyromet® 31V)	2.80	2.95	3.36	3.50	3.33							
CarTech® 751 (Pyromet® 751)	2.33	2.55	3.05	3.22	3.05							
CarTech® 80A (Pyromet® 80A) Valve	2.68	2.92	3.44	3.62	3.43							

HIGH SPEED STEELS (not applicable to powder products)

Alloy Description

CarTech® M1 - Tatmo	2.55	2.37	2.31	2.35	2.25							
CarTech® M2 - Double 6	3.89	3.64	3.49	3.40	3.24							

Carpenter reserves the right to change base values and/or add producer premiums to accurately reflect the changes in raw material markets and prices.

Raw Material and Energy Surcharges 2019 - USD/lb.
(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® M2 - Double 6-XL	3.89	3.64	3.49	3.40	3.24							
CarTech® M2 - HS29	3.74	3.51	3.36	3.28	3.12							
CarTech® M2 - HS29-XL	3.74	3.51	3.36	3.28	3.12							
CarTech® M3I - Corsair	4.04	3.78	3.63	3.52	3.36							
CarTech® M3II - Crusader	4.42	4.15	3.97	3.85	3.67							
CarTech® M4 - Stark	4.73	4.44	4.24	4.10	3.91							
CarTech® M7 - Tatmo-VN	3.18	2.97	2.88	2.89	2.77							
CarTech® M11 - Vancomo	2.93	2.72	2.64	2.64	2.52							
CarTech® M33 - Kelvan	4.90	4.54	4.32	4.21	3.97							
CarTech® M35 - HS 105	4.98	4.64	4.40	4.23	3.99							
CarTech® M42 - Dynamax	4.80	4.45	4.24	4.13	3.89							
CarTech® M50 - CM-50	1.62	1.50	1.45	1.45	1.40							
CarTech® M51	7.77	7.25	6.82	6.46	6.07							
CarTech® M52 - CM52	3.15	2.95	2.83	2.76	2.64							
CarTech® T15 - Dynavan	7.83	7.35	6.92	6.53	6.16							
CarTech® Abscido	2.95	2.75	2.63	2.55	2.43							
CarTech® Supersaw	3.92	3.62	3.41	3.27	3.07							

TOOL STEELS (not applicable to powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® A2 - Select-B	0.70	0.63	0.60	0.59	0.57							
CarTech® A6 - Lesco A6	0.51	0.45	0.44	0.43	0.42							
CarTech® A7 - BR-3	3.51	3.29	3.13	3.00	2.86							
CarTech® A7 - Brickmold	3.56	3.34	3.18	3.04	2.90							
CarTech® A8 - MGR	1.10	1.01	0.97	0.94	0.90							
CarTech® A8+ - MGR-MQ	1.10	1.01	0.96	0.94	0.90							
CarTech® A9 - Mazeman	1.32	1.23	1.19	1.17	1.12							
CarTech® A10 - Graph-Air	0.62	0.56	0.56	0.57	0.56							
CarTech® A18 - Whitebear	2.06	1.91	1.83	1.76	1.69							
CarTech® D2 - Olympic	1.15	1.05	1.01	0.97	0.93							
CarTech® D3 - GSN	0.63	0.57	0.54	0.51	0.49							

Carpenter reserves the right to change base values and/or add producer premiums to accurately reflect the changes in raw material markets and prices.

Raw Material and Energy Surcharges 2019 - USD/lb.
(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® D4 - GSN+Mo	0.91	0.83	0.79	0.76	0.73							
CarTech® D5 - Riptide	1.31	1.19	1.11	1.04	0.98							
CarTech® D7 - BR-4	3.25	3.05	2.90	2.77	2.65							
CarTech® H10 - Dart	0.88	0.80	0.78	0.78	0.75							
CarTech® H11 - Dycast	0.89	0.81	0.78	0.76	0.73							
CarTech® H11+ - Dycast-VAR	0.89	0.81	0.78	0.76	0.73							
CarTech® H12 - L.P.D.®	1.12	1.03	0.99	0.96	0.92							
CarTech® H13 - VDC®	1.24	1.14	1.10	1.06	1.02							
CarTech® H13+ - VDC-MQ	1.24	1.14	1.10	1.06	1.02							
CarTech® H13++ - VDC-RF	1.18	1.08	1.04	1.01	0.97							
CarTech® H13-FM - Viscount	1.24	1.14	1.10	1.06	1.02							
CarTech® H14 - Lumdie	1.43	1.32	1.25	1.18	1.13							
CarTech® H19 - Lesco19	3.97	3.70	3.48	3.27	3.08							
CarTech® H21 - CLW	2.89	2.70	2.56	2.42	2.30							
CarTech® H26 - H26 Mod	5.62	5.28	4.99	4.72	4.47							
CarTech® H43 - Lesco 43	2.87	2.68	2.61	2.62	2.52							
CarTech® L6 - Montana	1.46	1.35	1.30	1.24	1.18							
CarTech® O1 - Badger	0.48	0.42	0.40	0.37	0.36							
CarTech® O6 - Graph-Mo	0.38	0.33	0.32	0.31	0.30							
CarTech® O7 - Lesco O7	0.72	0.65	0.62	0.59	0.56							
CarTech® S1 - XL®-Chisel	1.02	0.94	0.89	0.84	0.81							
CarTech® S2 - Trident	0.57	0.51	0.48	0.47	0.45							
CarTech® S4 - Damascus	0.34	0.29	0.28	0.26	0.26							
CarTech® S5 - Lanark	0.70	0.63	0.61	0.60	0.58							
CarTech® S7 - Bearcat	0.58	0.51	0.50	0.50	0.49							
CarTech® S7+ - S7-MQ	0.58	0.51	0.50	0.50	0.48							
CarTech® CAT4039	0.97	0.88	0.85	0.85	0.82							
CarTech® Chipper	0.90	0.82	0.79	0.77	0.74							
CarTech® HC-H13	1.34	1.24	1.19	1.16	1.11							
CarTech® Lescowear	2.49	2.33	2.22	2.13	2.04							
CarTech® LSC2367	1.20	1.10	1.07	1.07	1.03							

Carpenter reserves the right to change base values and/or add producer premiums to accurately reflect the changes in raw material markets and prices.

Raw Material and Energy Surcharges 2019 - USD/lb.
(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® Mandrel	0.49	0.45	0.45	0.45	0.44							
CarTech® Staminal®	0.59	0.54	0.54	0.53	0.52							
CarTech® Tplex	0.74	0.69	0.70	0.70	0.68							
CarTech® 420-FM - Saxman-FM	0.70	0.63	0.60	0.57	0.55							
CarTech® 420SS - Saxman6R	0.70	0.63	0.60	0.57	0.55							

Conversion Services (Natural Gas Surcharges)

Process 1 - Non-Ti Air Cool	0.03	0.02	0.02	0.01	0.01							
Process 2 - Non Ti Fce Cool	0.05	0.03	0.03	0.02	0.02							
Process 3 - General Ti	0.03	0.02	0.02	0.01	0.01							
Process 4 Special Processing	0.05	0.03	0.03	0.02	0.02							
Process 5 - Machining Only	0.00	0.00	0.00	0.00	0.00							
Process 6 - Remelt Only	0.00	0.00	0.00	0.00	0.00							

Unless otherwise noted, trademarks reg. U.S. Pat. & Tm. Off. to CRS Holdings, Inc., a subsidiary of Carpenter Technology Corporation.

Last Modified 01-May-19, 8:26 AM

Carpenter reserves the right to change base values and/or add producer premiums to accurately reflect the changes in raw material markets and prices.