

**Raw Material and Energy Surcharges 2023 - 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.

9/1/2023 Last Updated

**STAINLESS STEELS**

Alloy Description	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® 15-15HS® Stainless/SCF260	1.87	1.97	2.05	1.88	1.63	1.63	1.59	1.58	1.63			
CarTech® 15-15LC® Modified Stainless	1.52	1.62	1.71	1.59	1.35	1.37	1.34	1.33	1.38			
CarTech® 20Cb-3® Stainless	6.66	6.72	6.54	5.74	5.51	5.24	5.03	4.97	5.00			
CarTech® 20Mo-6® Stainless	7.69	7.95	7.96	6.93	6.25	6.05	5.87	5.83	5.95			
CarTech® 302HQ-FM® Stainless	2.07	2.05	1.96	1.81	1.86	1.77	1.66	1.64	1.63			
CarTech® 316L-SCQ® Stainless	3.33	3.46	3.48	3.10	2.82	2.74	2.65	2.62	2.67			
CarTech® 13-8 Stainless	2.36	2.50	2.56	2.30	2.03	2.00	1.94	1.93	1.98			
CarTech® 15Cr-5Ni	1.43	1.45	1.40	1.34	1.37	1.31	1.24	1.22	1.21			
CarTech® 18Cr-2Ni-12Mn	1.00	1.00	0.97	0.97	1.00	0.98	0.91	0.90	0.89			
CarTech® 18Cr-3Ni-12Mn	1.30	1.28	1.24	1.19	1.23	1.19	1.11	1.09	1.08			
CarTech® 21Cr-6Ni-9Mn	1.87	1.84	1.76	1.65	1.70	1.62	1.52	1.50	1.48			
CarTech® 22Cr-13Ni-5Mn	3.32	3.42	3.42	3.07	2.82	2.74	2.65	2.62	2.66			
CarTech® 302HQ-SFQ Stainless	2.07	2.05	1.96	1.81	1.86	1.77	1.66	1.64	1.63			
CarTech® Custom 631 (17Cr-7Ni)	1.73	1.72	1.65	1.55	1.59	1.51	1.42	1.40	1.39			
CarTech® 15-7PH Stainless	2.31	2.45	2.51	2.26	2.01	1.98	1.92	1.90	1.95			
CarTech® Custom 630 (17Cr-4Ni) Stainless	1.41	1.43	1.38	1.33	1.36	1.30	1.23	1.21	1.20			
CarTech® No. 5-F Stainless (Type 416 Mod)	0.57	0.60	0.59	0.63	0.65	0.64	0.59	0.58	0.58			
CarTech® 302 Stainless	2.07	2.05	1.96	1.81	1.86	1.77	1.66	1.64	1.63			
CarTech® 303 Stainless	2.07	2.05	1.96	1.81	1.86	1.77	1.66	1.65	1.63			
CarTech® 303 Se Stainless	2.07	2.05	1.96	1.81	1.86	1.77	1.66	1.64	1.63			
CarTech® 304/304L Stainless	2.07	2.05	1.96	1.81	1.86	1.77	1.66	1.64	1.63			
CarTech® 305 Stainless	2.48	2.45	2.34	2.13	2.19	2.07	1.95	1.93	1.91			
CarTech® 309 Stainless	2.89	2.86	2.72	2.48	2.54	2.41	2.27	2.23	2.21			
CarTech® 310 Stainless	3.86	3.80	3.61	3.25	3.33	3.14	2.96	2.91	2.88			
CarTech® 316/316L Stainless	2.85	2.98	3.01	2.69	2.44	2.38	2.30	2.29	2.33			
CarTech® 316L Stainless	2.85	2.98	3.01	2.69	2.44	2.38	2.30	2.29	2.33			
CarTech® 321 Stainless	2.37	2.35	2.25	2.06	2.11	2.00	1.88	1.85	1.83			
CarTech® 347 Stainless	2.37	2.35	2.24	2.05	2.10	1.99	1.88	1.85	1.84			
CarTech® 403 Stainless	0.56	0.58	0.58	0.62	0.64	0.63	0.58	0.57	0.57			
CarTech® 410 Stainless	0.56	0.58	0.58	0.62	0.64	0.63	0.58	0.57	0.57			
CarTech® 416 Stainless	0.57	0.60	0.59	0.63	0.65	0.64	0.59	0.58	0.58			
CarTech® 416 (No. 5) Stainless	0.57	0.60	0.59	0.63	0.65	0.64	0.59	0.58	0.58			

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

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CarTech® 416 RS Stainless	0.57	0.60	0.59	0.63	0.65	0.64	0.59	0.58	0.58			
CarTech® 416BQ Stainless (No. 5BQ)	0.57	0.60	0.59	0.63	0.65	0.64	0.59	0.58	0.58			
CarTech® 420 Stainless	0.58	0.61	0.60	0.64	0.66	0.65	0.60	0.59	0.59			
CarTech® 420 Mod Stainless	0.58	0.61	0.60	0.64	0.66	0.65	0.60	0.59	0.59			
CarTech® 420F Stainless	0.59	0.61	0.61	0.65	0.67	0.66	0.61	0.60	0.60			
CarTech® 430 Stainless	0.68	0.70	0.69	0.73	0.75	0.74	0.69	0.68	0.67			
CarTech® 430F Stainless	0.68	0.70	0.69	0.73	0.75	0.74	0.69	0.68	0.67			
CarTech® 430FR Stainless	0.68	0.70	0.69	0.73	0.75	0.74	0.69	0.68	0.67			
CarTech® 431 Stainless	0.99	1.01	0.98	0.97	1.00	0.97	0.90	0.89	0.88			
CarTech® 434 Stainless	0.96	1.05	1.11	1.08	0.96	0.97	0.93	0.92	0.95			
CarTech® 440A Stainless	0.67	0.70	0.69	0.72	0.75	0.74	0.69	0.68	0.67			
CarTech® 440C Stainless	0.67	0.70	0.69	0.72	0.75	0.74	0.69	0.68	0.67			
CarTech® 440F-Se Stainless	0.68	0.70	0.69	0.73	0.75	0.74	0.69	0.68	0.67			
CarTech® 446 Stainless	0.86	0.88	0.87	0.90	0.93	0.92	0.86	0.84	0.83			
CarTech® 204-Cu Stainless	1.70	1.69	1.71	1.68	1.54	1.43	1.42	1.42	1.42			
CarTech® Consumet® 304L-SCQ	2.07	2.05	1.96	1.81	1.86	1.77	1.66	1.64	1.63			
CarTech® Custom 450® Stainless	2.23	2.39	2.46	2.22	1.95	1.93	1.87	1.86	1.91			
CarTech® Custom 455® Stainless	2.18	2.02	1.94	1.80	1.87	1.80	1.68	1.57	1.57			
CarTech® Custom 465® Stainless	3.18	2.91	2.88	2.63	2.59	2.52	2.37	2.17	2.19			
CarTech® Custom 475™ Stainless	4.77	4.38	4.31	3.95	3.24	2.98	3.08	3.26	3.32			
CarTech® Custom Flo 302HQ Stainless	2.07	2.05	1.96	1.81	1.86	1.77	1.66	1.64	1.63			
CarTech® EnduraMet® 2205 Stainless	2.37	2.56	2.67	2.42	2.05	2.05	2.00	1.99	2.06			
CarTech® Gall-Tough® PLUS Stainless	2.01	1.98	1.90	1.75	1.80	1.72	1.61	1.59	1.57			
CarTech® Gall-Tough® Stainless	1.47	1.46	1.41	1.33	1.37	1.31	1.23	1.21	1.20			
CarTech® 15Cr-5Ni Project 70+® Stainless	1.43	1.45	1.40	1.34	1.37	1.31	1.24	1.22	1.21			
CarTech® Custom 630 Project 70+® Stainless	1.41	1.43	1.38	1.33	1.36	1.30	1.23	1.21	1.20			
CarTech® 303 Project 70+® Escomatic Quality	2.07	2.05	1.96	1.81	1.86	1.77	1.66	1.65	1.63			
CarTech® 303 Project 70+® Stainless	2.07	2.05	1.96	1.81	1.86	1.77	1.66	1.65	1.63			
CarTech® 304/304L Project 70+® Stainless	2.13	2.12	2.02	1.87	1.92	1.82	1.71	1.70	1.68			
CarTech® 316/316L Project 70+® Stainless	2.85	2.98	3.01	2.69	2.44	2.38	2.30	2.29	2.33			
CarTech® 416 Project 70+® Stainless	0.57	0.60	0.59	0.63	0.65	0.64	0.59	0.58	0.58			
CarTech® Pyrowear® 675 Stainless	2.23	2.11	2.00	1.92	1.64	1.45	1.52	1.73	1.72			
CarTech® SCF 19 Max® Alloy	4.75	5.00	5.11	4.49	3.90	3.83	3.75	3.72	3.83			
CarTech® 410 Mod Stainless	0.56	0.58	0.58	0.62	0.64	0.63	0.58	0.57	0.57			
CarTech® TrimRite® Stainless	0.87	0.94	0.97	0.95	0.88	0.88	0.84	0.83	0.85			

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CarTech® 409Cb Stainless	0.58	0.60	0.60	0.63	0.65	0.64	0.59	0.58	0.58			
CarTech® 409Cb High Nickel Stainless	0.58	0.60	0.60	0.63	0.65	0.64	0.59	0.58	0.58			
CarTech® 2507 Super Duplex Stainless	2.78	3.00	3.13	2.83	2.40	2.40	2.35	2.33	2.42			
CarTech® Ni-Cu K500	11.10	10.99	10.39	9.08	9.24	8.57	8.19	8.08	8.00			
CarTech® 330 Stainless	6.07	5.95	5.62	4.94	5.05	4.73	4.47	4.40	4.36			
CarTech® 317 Stainless	3.62	3.79	3.85	3.42	3.04	2.97	2.89	2.86	2.93			
CarTech® A-21®	1.10	1.14	1.15	1.09	1.05	1.03	0.97	0.96	0.97			

**AEROSPACE AND HIGH TEMPERATURE ALLOYS**

CarTech® A-286 Alloy	5.83	5.45	5.30	4.73	4.71	4.50	4.27	3.98	3.99			
CarTech® Alloy 2 (159 ALY / MP159)	22.35	19.86	17.70	16.53	14.72	12.32	13.26	15.70	15.54			
CarTech® Greek Ascoloy (418 SS)	1.45	1.47	1.49	1.49	1.50	1.51	1.45	1.46	1.46			
CarTech® L-605 Alloy	16.76	13.81	12.10	12.41	11.87	10.22	11.01	12.84	12.46			
CarTech® Waspaloy	14.58	13.56	12.82	11.53	11.04	10.15	10.06	10.20	10.16			
CarTech® 350 (Pyromet® 350)	2.06	2.26	2.38	2.16	1.80	1.81	1.78	1.77	1.84			
CarTech® 355 (Pyromet® 355)	2.07	2.26	2.38	2.15	1.79	1.80	1.77	1.77	1.84			
CarTech® 41 (Pyromet® 41)	15.25	14.84	14.58	12.98	11.70	11.03	11.06	11.12	11.28			
CarTech® 600 (Pyromet® 600)	12.33	11.63	10.97	9.51	9.76	9.11	8.57	8.20	8.13			
CarTech® 625 (Pyromet® 625)	14.44	14.37	14.45	12.67	11.62	11.21	11.06	10.57	10.78			
CarTech® 680 (Pyromet® 680)	12.05	11.95	12.04	10.58	9.49	9.16	9.01	8.65	8.86			
CarTech® 706 (Pyromet® 706)	8.25	7.66	7.36	6.54	6.71	6.34	6.07	5.70	5.66			
CarTech® 718 (Pyromet® 718)	11.33	10.87	10.71	9.48	9.24	8.80	8.61	8.15	8.19			
CarTech® 720 (Pyromet® 720)	14.36	13.28	12.45	11.26	10.96	10.03	9.95	10.21	10.12			
CarTech® 80A (Pyromet® 80A)	13.05	12.23	11.55	10.06	10.35	9.69	9.12	8.67	8.59			
CarTech® 825 (Pyromet® 825)	9.10	9.13	8.84	7.70	7.47	7.07	6.78	6.70	6.72			
CarTech® 882 (Pyromet® 882)	0.69	0.81	0.89	0.85	0.69	0.71	0.69	0.69	0.73			
CarTech® 901 (Pyromet® 901)	9.38	9.40	9.39	8.20	7.55	7.29	7.11	6.85	6.99			
CarTech® CTX-1 (Pyromet® CTX-1)	9.65	8.81	7.99	7.36	7.32	6.45	6.57	7.09	6.93			
CarTech® CTX-3 (Pyromet® CTX-3)	9.57	8.79	8.06	7.45	7.40	6.57	6.75	7.21	7.05			
CarTech® CTX-909 (Pyromet® CTX-909)	9.55	8.77	8.05	7.43	7.38	6.55	6.73	7.19	7.03			
CarTech® X-750 (Pyromet® X-750)	12.41	11.72	11.09	9.65	9.93	9.29	8.79	8.40	8.32			
CarTech® Thermo-Span® Alloy	11.37	9.79	8.68	8.47	8.21	6.98	7.55	8.53	8.27			

**MAGNETIC, CONTROLLED EXPANSION AND ELECTRICAL ALLOYS**

**Raw Material and Energy Surcharges 2023 - USD/lb.**  
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CarTech® 22-3 High Thermal Expansion	3.65	3.59	3.40	2.98	3.06	2.86	2.69	2.66	2.63			
CarTech® Electrical Iron	0.21	0.25	0.26	0.29	0.31	0.31	0.27	0.28	0.28			
CarTech® Glass Sealing 42	6.46	6.33	5.97	5.17	5.29	4.92	4.65	4.58	4.54			
CarTech® Glass Sealing 52	7.83	7.66	7.21	6.21	6.36	5.90	5.58	5.50	5.45			
CarTech® High Permeability "49"® Alloy	7.45	7.29	6.86	5.92	6.06	5.63	5.31	5.24	5.19			
CarTech® HyMu "80"® Alloy	13.41	13.39	12.91	11.07	10.72	10.08	9.66	9.54	9.57			
CarTech® HyMu "80"® Mark II Alloy	13.41	13.39	12.91	11.07	10.72	10.08	9.66	9.54	9.57			
CarTech® HyMu "800"	13.68	13.72	13.29	11.40	10.94	10.32	9.91	9.79	9.84			
CarTech® Super Invar 32-5	5.79	5.44	4.96	4.39	4.42	3.95	3.84	4.02	3.93			
CarTech® Invar 36 Alloy	5.69	5.58	5.27	4.57	4.67	4.35	4.11	4.05	4.01			
CarTech® Low Expansion "42"® Alloy / Thermost	6.46	6.33	5.97	5.17	5.29	4.92	4.65	4.58	4.54			
CarTech® Low Expansion 43-PH	6.88	6.74	6.36	5.53	5.70	5.32	5.04	4.97	4.92			
CarTech® Nickel 200 Alloy	15.32	14.96	14.05	12.06	12.33	11.43	10.83	10.66	10.55			
CarTech® Nickel 201 Alloy, Nickel 205 Alloy	15.22	14.85	13.95	11.97	12.24	11.36	10.75	10.58	10.48			
CarTech® Silicon Core Iron "A-FM"	0.14	0.18	0.19	0.22	0.24	0.24	0.20	0.21	0.21			
CarTech® Silicon Core Iron "B"	0.22	0.25	0.26	0.30	0.31	0.31	0.27	0.28	0.28			
CarTech® Silicon Core Iron "B-FM"	0.22	0.25	0.26	0.30	0.31	0.31	0.27	0.28	0.28			
CarTech® Temperature Compensator "30"® Type 2	4.71	4.63	4.36	3.79	3.88	3.61	3.40	3.35	3.32			
CarTech® Temperature Compensator "30"® Type 4	4.71	4.63	4.36	3.79	3.88	3.61	3.40	3.35	3.32			
CarTech®Temperature Compensator "32"	5.09	4.99	4.71	4.08	4.17	3.88	3.66	3.61	3.58			
CarTech® Chrome Core® 8-FM Alloy	0.52	0.57	0.60	0.61	0.58	0.58	0.55	0.54	0.55			
CarTech® Chrome Core® 12-FM Alloy	0.63	0.68	0.70	0.71	0.69	0.69	0.64	0.64	0.64			
CarTech® Chrome Core® 13-FM	0.66	0.70	0.72	0.74	0.71	0.71	0.67	0.66	0.67			
CarTech® Chrome Core® 13-XP	0.90	0.97	1.02	1.01	0.93	0.92	0.88	0.87	0.88			
CarTech® Chrome Core® 18-FM Alloy	1.17	1.30	1.40	1.33	1.11	1.14	1.11	1.10	1.15			
CarTech® Free-Cut Invar "36"® Alloy	5.69	5.58	5.27	4.57	4.67	4.35	4.11	4.05	4.01			
CarTech® Hiperco® 27 Alloy	5.85	4.59	3.64	3.91	3.62	2.70	3.19	4.30	4.08			
CarTech® Hiperco® 50 Alloy	10.63	8.36	6.63	7.11	6.56	4.86	5.77	7.78	7.37			
CarTech® Hiperco® 50 HS Alloy	10.48	8.23	6.51	6.98	6.44	4.75	5.65	7.65	7.24			
CarTech® Hiperco® 50A Alloy	10.63	8.36	6.63	7.11	6.56	4.86	5.77	7.78	7.37			
CarTech® Hy Mu 77 Alloy	12.04	11.78	11.08	9.56	9.77	9.06	8.59	8.46	8.38			
CarTech® Hy-Ra "49"® Alloy	7.45	7.29	6.86	5.92	6.06	5.63	5.31	5.24	5.19			
CarTech® Kovar® Alloy	6.81	5.93	5.06	4.66	4.55	3.72	3.84	4.51	4.31			
CarTech® MagneDur® 20-4 Alloy	4.29	4.50	4.57	3.96	3.48	3.38	3.29	3.28	3.37			
CarTech® No. 1 JR® Type 1 Alloy	0.64	0.68	0.67	0.70	0.72	0.71	0.65	0.64	0.64			

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CarTech® No. 1 JR® Type 2 Alloy	0.60	0.63	0.63	0.66	0.68	0.67	0.62	0.61	0.60			
CarTech® Rotelloy 3 Alloy	10.70	8.41	6.67	7.14	6.59	4.89	5.80	7.82	7.41			
CarTech® Rotelloy 8 Alloy	10.63	8.34	6.60	7.07	6.52	4.82	5.73	7.75	7.34			
CarTech® Mumetal	13.00	13.01	12.55	10.79	10.45	9.83	9.42	9.31	9.34			
CarTech® Hypocore	0.87	0.67	0.50	0.58	0.53	0.37	0.43	0.63	0.59			
CarTech® High Expansion 25-8	4.22	4.15	3.92	3.45	3.53	3.31	3.12	3.08	3.05			
CarTech® Low Expansion 50	7.86	7.69	7.24	6.25	6.40	5.95	5.62	5.54	5.48			
CarTech® Low Expansion 40	6.30	6.18	5.82	5.04	5.16	4.80	4.53	4.47	4.42			
CarTech® Low Expansion 45	7.00	6.86	6.45	5.57	5.70	5.29	5.00	4.93	4.89			
CarTech® High Expansion 19-7	3.27	3.23	3.06	2.71	2.78	2.60	2.45	2.42	2.40			
CarTech® High Expansion 19-2	3.23	3.19	3.02	2.66	2.72	2.55	2.40	2.36	2.34			
CarTech® Low Expansion 38-7	6.14	6.02	5.68	4.94	5.06	4.72	4.46	4.40	4.36			
CarTech® High Expansion 72	3.61	3.59	3.49	3.21	2.90	2.60	2.58	2.50	2.47			

**MEDICAL ALLOYS**

CarTech® BioDur® 108 Alloy	1.17	1.20	1.24	1.20	1.09	1.10	1.06	1.04	1.07			
CarTech® BioDur® 22Cr-13Ni-5Mn Stainless	3.32	3.42	3.42	3.07	2.82	2.74	2.65	2.62	2.66			
CarTech® BioDur® 316LS Stainless	3.59	3.74	3.77	3.35	3.01	2.94	2.85	2.82	2.88			
CarTech® BioDur® 470/Custom 470	2.44	2.48	2.44	2.19	2.11	2.02	1.93	1.91	1.93			
CarTech® BioDur® 734 Alloy	2.96	3.09	3.14	2.82	2.53	2.48	2.40	2.38	2.44			
CarTech® BioDur® Carpenter CCM® Alloy	17.72	14.34	12.34	12.61	11.18	9.06	10.30	12.56	12.20			
CarTech® BioDur® TrimRite® Stainless	0.87	0.94	0.97	0.95	0.88	0.88	0.84	0.83	0.85			
CarTech® Micro-Melt® BioDur® Carpenter CCM® Alloy	17.69	14.37	12.43	12.67	11.18	9.09	10.32	12.55	12.21			
CarTech® Micro-Melt® BioDur® CCM Plus®	17.21	14.02	12.22	12.41	10.92	8.95	10.12	12.19	11.88			
CarTech® Conichrome Alloy	14.58	12.69	11.57	11.20	9.84	8.48	9.22	10.53	10.40			

**CORROSION-RESISTANT ALLOYS**

CarTech® Alloy 22	14.91	15.17	15.50	13.59	11.97	11.72	11.59	11.17	11.50			
CarTech® Alloy C-276	15.23	15.90	16.40	14.33	12.26	11.96	11.94	11.61	12.01			
CarTech® MP35N* Alloy	25.60	23.45	21.46	19.59	17.32	14.91	15.70	17.92	17.90			
CarTech® Ni-Cu 400	11.32	11.21	10.60	9.27	9.44	8.75	8.37	8.28	8.20			
CarTech® Ni-Cu 405	11.32	11.21	10.60	9.27	9.44	8.75	8.37	8.28	8.20			
CarTech® Custom Age 625 PLUS® / 725	14.07	13.92	13.94	12.23	11.33	10.90	10.72	10.24	10.42			
CarTech® 925	9.32	8.83	8.64	7.63	7.42	7.10	6.79	6.37	6.42			

\*MP35N is a trademark of SPS Technologies, Inc.

Raw Material and Energy Surcharges 2023 - USD/lb.  
(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
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**BEARING AND GEAR STEELS**

CarTech® 52100	0.25	0.28	0.29	0.33	0.34	0.34	0.30	0.31	0.31			
CarTech® 52100T2	0.25	0.28	0.29	0.33	0.34	0.34	0.30	0.31	0.31			
CarTech® Aero-A6	0.64	0.65	0.67	0.70	0.68	0.65	0.61	0.58	0.59			
CarTech® BG-42	2.31	2.65	2.95	2.69	2.00	2.06	2.08	2.08	2.22			
CarTech® CBS 223	1.44	1.64	1.81	1.67	1.31	1.31	1.30	1.28	1.35			
CarTech® CBS 600	1.11	1.36	1.57	1.42	0.98	1.04	1.04	1.04	1.14			
CarTech® CBS50Nil	3.15	3.53	3.83	3.36	2.57	2.58	2.57	2.55	2.72			
CarTech® CSS-42L	4.87	4.71	4.63	4.36	3.42	3.09	3.35	3.83	3.90			
CarTech® Dynaflex	0.87	1.00	1.10	1.05	0.86	0.88	0.85	0.85	0.90			
CarTech® L-6490	1.97	2.34	2.68	2.39	1.65	1.73	1.77	1.78	1.94			
CarTech® Lesco® 53	1.98	2.27	2.50	2.21	1.64	1.67	1.67	1.68	1.80			
CarTech® Pyrowear® Alloy 53	1.98	2.27	2.50	2.21	1.64	1.67	1.67	1.68	1.80			
CarTech® M-50	2.43	2.87	3.26	2.91	2.01	2.10	2.15	2.15	2.34			
CarTech® QC61	5.33	4.61	3.99	3.87	3.53	2.88	3.13	3.81	3.69			
CarTech® QC64	4.96	4.38	3.89	3.75	3.30	2.74	2.99	3.61	3.53			

**ALLOY STEELS**

CarTech® 300M	0.67	0.73	0.76	0.72	0.66	0.65	0.61	0.61	0.63			
CarTech® 35NCD16	0.91	0.92	0.89	0.83	0.86	0.81	0.75	0.74	0.74			
CarTech® 4130 , 4140, 4150	0.30	0.35	0.38	0.40	0.38	0.38	0.35	0.35	0.36			
CarTech® 4319, 4320, 4343	0.61	0.66	0.67	0.64	0.61	0.60	0.55	0.55	0.56			
CarTech® 4330+V, 4335+V	0.70	0.76	0.79	0.75	0.68	0.67	0.63	0.63	0.65			
CarTech® 4340, 4340 VV	0.61	0.66	0.67	0.64	0.62	0.60	0.56	0.56	0.57			
CarTech® 6150	0.29	0.33	0.34	0.38	0.40	0.39	0.35	0.35	0.35			
CarTech® 8620	0.37	0.42	0.44	0.45	0.42	0.42	0.39	0.39	0.40			
CarTech® 9310, 9315	0.81	0.83	0.82	0.77	0.77	0.74	0.68	0.68	0.68			
CarTech® AerMet® 100 Alloy	5.15	4.53	4.05	3.90	3.63	3.11	3.29	3.77	3.69			
CarTech® AerMet® 310 Alloy	5.55	4.88	4.33	4.19	3.87	3.29	3.51	4.08	3.99			
CarTech® AerMet® 340 Alloy	5.94	5.28	4.74	4.56	4.17	3.57	3.80	4.39	4.31			
CarTech® AF1410	4.62	4.07	3.57	3.41	3.13	2.61	2.78	3.31	3.22			
CarTech® No. 158® Alloy	0.86	0.87	0.85	0.79	0.82	0.78	0.72	0.71	0.70			
CarTech® D6AC	0.69	0.80	0.88	0.82	0.66	0.68	0.66	0.66	0.70			
CarTech® GNB100	1.21	1.30	1.34	1.22	1.09	1.06	1.02	1.01	1.04			

**Raw Material and Energy Surcharges 2023 - USD/lb.**  
(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® HP-9-4-20	2.80	2.68	2.52	2.30	2.12	1.90	1.91	2.07	2.06			
CarTech® HP-9-4-30	2.55	2.43	2.28	2.10	1.91	1.72	1.73	1.90	1.89			
CarTech® HY180	3.61	3.32	3.02	2.81	2.60	2.26	2.32	2.62	2.58			
CarTech® HYTUF	0.81	0.86	0.87	0.81	0.76	0.74	0.70	0.69	0.71			
CarTech® L-6305	0.46	0.53	0.58	0.58	0.50	0.51	0.48	0.48	0.50			
CarTech® NiMark® Alloy 250	5.91	5.92	5.80	5.23	4.53	4.20	4.33	4.63	4.69			
CarTech® NiMark+A273 Alloy 250-LR	5.91	5.92	5.80	5.23	4.53	4.20	4.33	4.63	4.69			
CarTech® NiMark® Alloy 300	6.19	6.15	5.98	5.42	4.70	4.33	4.49	4.84	4.89			
CarTech® Nitalloy 135	0.33	0.38	0.41	0.42	0.40	0.41	0.37	0.37	0.38			
CarTech® Nitalloy N	0.88	0.92	0.91	0.85	0.83	0.80	0.74	0.74	0.75			
CarTech® PremoMax® Alloy	0.55	0.60	0.61	0.62	0.60	0.58	0.54	0.54	0.55			
CarTech® PremoMet® Alloy	1.11	1.17	1.18	1.09	1.02	0.99	0.93	0.93	0.94			
CarTech® QM54	2.60	2.48	2.41	2.33	1.91	1.73	1.86	2.17	2.19			
CarTech® UT-18	0.69	0.80	0.89	0.85	0.68	0.70	0.68	0.68	0.72			

**SPECIALTY ALLOYS**

CarTech® AEREX	26.64	24.91	22.81	20.97	20.13	17.89	17.71	19.29	18.92			
CarTech® JETHETE	2.48	2.49	2.39	2.11	2.11	1.98	1.86	1.84	1.84			
CarTech® QS53	4.82	4.36	4.00	3.87	3.40	2.95	3.16	3.69	3.65			
CarTech® XM-27	2.04	2.20	2.29	2.03	1.67	1.70	1.66	1.59	1.67			

**SPECIAL PURPOSE ALLOYS**

CarTech® CBX Cupron® Alloy	8.87	8.91	8.48	7.57	7.67	7.11	6.87	6.82	6.75			
CarTech® Evanohm® Alloy R	13.14	12.32	11.65	10.18	10.43	9.77	9.21	8.76	8.68			
CarTech® Manganin 13	4.09	4.39	4.30	4.17	4.15	3.84	3.86	3.87	3.84			
CarTech® NIAL Alloy	14.70	14.36	13.49	11.59	11.85	11.00	10.41	10.25	10.15			
CarTech® NIAL Alloy / Low Resistivity NIAL	14.70	14.36	13.49	11.59	11.85	11.00	10.41	10.25	10.15			

**VALVE STEELS**

CarTech® 31V (Pyromet® 31V)	11.24	10.58	10.19	8.93	8.91	8.44	8.01	7.55	7.56			
CarTech® 751 (Pyromet® 751)	12.11	11.42	10.78	9.37	9.64	9.02	8.49	8.12	8.04			
CarTech® 80A (Pyromet® 80A) Valve	13.05	12.23	11.55	10.06	10.35	9.69	9.12	8.67	8.59			

**HIGH SPEED STEELS (not applicable to powder products)**

CarTech® M1 - Tatmo	3.32	3.95	4.55	4.03	2.71	2.89	3.00	3.03	3.31			
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**Raw Material and Energy Surcharges 2023 - USD/lb.**  
(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® M2 - Double 6	3.64	4.03	4.47	4.19	3.37	3.50	3.55	3.59	3.78			
CarTech® M2 - Double 6-XL	3.52	3.90	4.32	4.05	3.26	3.39	3.43	3.48	3.66			
CarTech® M4 - Stark	3.55	3.87	4.25	4.03	3.33	3.38	3.41	3.43	3.58			
CarTech® M7 - Tatmo-VN	3.56	4.19	4.80	4.28	2.95	3.11	3.21	3.24	3.52			
CarTech® M11 - Vancomo	3.17	3.66	4.11	3.67	2.51	2.59	2.71	2.80	3.02			
CarTech® M35 - HS 105	4.25	4.44	4.72	4.49	3.65	3.64	3.76	3.97	4.12			
CarTech® M42 - Dynamax	4.87	5.26	5.69	5.15	3.60	3.58	3.83	4.15	4.40			
CarTech® M50 - CM-50	1.98	2.35	2.68	2.40	1.65	1.73	1.78	1.78	1.94			
CarTech® Abscido	2.49	2.72	2.99	2.84	2.34	2.38	2.39	2.40	2.50			
CarTech® Supersaw	3.40	3.48	3.60	3.37	2.52	2.39	2.56	2.86	2.96			

**TOOL STEELS (not applicable to powder products)**

CarTech® A2 - Select-B	0.73	0.84	0.91	0.89	0.74	0.76	0.73	0.73	0.76			
CarTech® A6 - Lesco A6	0.59	0.72	0.81	0.77	0.60	0.63	0.61	0.62	0.66			
CarTech® A7 - Brickmold	1.78	1.88	1.97	1.95	1.76	1.67	1.63	1.60	1.63			
CarTech® A8 - MGR	1.11	1.24	1.36	1.31	1.11	1.14	1.12	1.13	1.18			
CarTech® A9 - Mazeman	1.28	1.42	1.52	1.43	1.20	1.19	1.16	1.15	1.20			
CarTech® A10 - Graph-Air	0.96	1.10	1.20	1.09	0.87	0.89	0.86	0.87	0.92			
CarTech® A18 - Whitebear	1.38	1.52	1.63	1.58	1.34	1.32	1.29	1.28	1.32			
CarTech® D3 - GSN	0.65	0.68	0.68	0.72	0.75	0.73	0.68	0.67	0.67			
CarTech® D4 - GSN+Mo	0.32	0.38	0.41	0.43	0.40	0.40	0.37	0.37	0.39			
CarTech® D7 - BR-4	1.76	1.85	1.93	1.92	1.75	1.66	1.62	1.59	1.61			
CarTech® H11 - Dycast	0.84	0.96	1.05	1.01	0.84	0.85	0.82	0.82	0.86			
CarTech® H12 - L.P.D.®	1.15	1.29	1.41	1.36	1.15	1.19	1.16	1.18	1.23			
CarTech® H13+- VDC-RF	0.97	1.10	1.21	1.16	0.96	0.96	0.94	0.94	0.98			
CarTech® H13-FM - Viscount	1.00	1.13	1.23	1.18	0.98	0.98	0.96	0.96	1.00			
CarTech® H19 - Lesco19	2.50	2.38	2.35	2.42	2.30	2.18	2.20	2.36	2.35			
CarTech® H21 - CLW	2.39	2.42	2.54	2.61	2.59	2.67	2.63	2.68	2.71			
CarTech® H26 - H26 Mod	4.58	4.59	4.81	4.91	4.85	4.99	4.95	5.08	5.13			
CarTech® H43 - Lesco 43	2.40	2.25	2.19	2.29	2.24	2.10	2.12	2.28	2.25			
CarTech® L6 - Montana	1.43	1.48	1.56	1.56	1.52	1.56	1.51	1.54	1.56			
CarTech® O1 - Badger	0.35	0.39	0.41	0.45	0.46	0.47	0.42	0.43	0.44			
CarTech® O6 - Graph-Mo	0.32	0.38	0.41	0.43	0.40	0.40	0.37	0.37	0.39			
CarTech® O7 - Lesco O7	0.57	0.61	0.64	0.69	0.69	0.71	0.67	0.68	0.69			
CarTech® S1 - XL®-Chisel	0.76	0.80	0.84	0.89	0.89	0.91	0.86	0.87	0.88			



**Raw Material and Energy Surcharges 2023 - USD/lb.**  
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Alloy Description	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® S4 - Damascus	0.22	0.26	0.28	0.32	0.33	0.33	0.29	0.30	0.30			
CarTech® S5 - Lanark	0.65	0.78	0.88	0.84	0.65	0.67	0.66	0.66	0.71			
CarTech® S7 - Bearcat	0.75	0.90	1.01	0.95	0.73	0.77	0.75	0.75	0.80			
CarTech® CAT4039	1.04	1.23	1.39	1.28	0.93	0.97	0.97	0.97	1.05			
CarTech® Lescowear	1.67	1.81	1.94	1.89	1.65	1.63	1.60	1.59	1.64			
CarTech® Mandrel	0.74	0.78	0.78	0.75	0.74	0.71	0.65	0.65	0.66			
CarTech® 420-FM - Saxman-FM	0.79	0.82	0.82	0.85	0.86	0.84	0.79	0.78	0.77			
CarTech® 420SS - Saxman6R	0.79	0.82	0.82	0.85	0.86	0.84	0.79	0.78	0.77			

<b>Conversion Services (Natural Gas Surcharges)</b>													
Process 1 - Non-Ti Air Cool	0.09	0.09	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
Process 2 - Non Ti Fce Cool	0.14	0.14	0.03	0.01	0.01	0.01	0.01	0.01	0.02	0.02			
Process 3 - General Ti	0.09	0.09	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
Process 4 Special Processing	0.14	0.14	0.03	0.01	0.01	0.01	0.01	0.01	0.02	0.02			
Process 5 - Machining Only	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Process 6 - Remelt Only	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			