

Raw Material and Energy Surcharges 2020 - 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/SCF260	0.52	0.53	0.56	0.52	0.51	0.52	0.51	0.59	0.61	0.64	0.65	
CarTech® 15-15LC® Modified Stainless	0.52	0.53	0.55	0.52	0.52	0.53	0.52	0.59	0.61	0.64	0.65	
CarTech® 20Cb-3® Stainless	2.23	2.20	2.05	1.83	1.79	1.87	1.98	2.09	2.32	2.43	2.51	
CarTech® 20Mo-6® Stainless	2.46	2.45	2.34	2.06	1.99	2.10	2.17	2.24	2.50	2.62	2.71	
CarTech® 302HQ-FM® Stainless	0.72	0.72	0.69	0.64	0.63	0.65	0.68	0.70	0.75	0.77	0.79	
CarTech® 316L-SCQ® Stainless	1.06	1.06	1.03	0.93	0.90	0.94	0.96	0.97	1.05	1.10	1.14	
CarTech® 13-8 Stainless	0.81	0.82	0.82	0.75	0.71	0.75	0.75	0.74	0.81	0.83	0.86	
CarTech® 15Cr-5Ni	0.58	0.59	0.56	0.54	0.52	0.53	0.56	0.57	0.59	0.61	0.61	
CarTech® 18Cr-2Ni-12Mn	0.41	0.41	0.45	0.43	0.42	0.42	0.43	0.40	0.40	0.41	0.41	
CarTech® 18Cr-3Ni-12Mn	0.49	0.50	0.52	0.48	0.48	0.49	0.50	0.48	0.49	0.51	0.52	
CarTech® 21Cr-6Ni-9Mn	0.65	0.65	0.64	0.60	0.60	0.61	0.64	0.63	0.66	0.68	0.69	
CarTech® 22Cr-13Ni-5Mn	1.10	1.10	1.08	0.98	0.95	1.00	1.02	1.02	1.11	1.15	1.19	
CarTech® 275 Stainless	0.86	0.86	0.83	0.77	0.74	0.77	0.80	0.82	0.88	0.92	0.94	
CarTech® 302HQ-SFQ Stainless	0.72	0.72	0.69	0.64	0.63	0.65	0.68	0.70	0.75	0.77	0.79	
CarTech® Custom 631 (17Cr-7Ni)	0.62	0.62	0.59	0.56	0.55	0.57	0.59	0.61	0.64	0.66	0.67	
CarTech® 15-7PH Stainless	0.79	0.80	0.79	0.72	0.70	0.72	0.73	0.73	0.78	0.81	0.83	
CarTech® Custom 630 (17Cr-4Ni) Stainless	0.52	0.54	0.52	0.50	0.48	0.49	0.52	0.53	0.55	0.56	0.58	
CarTech® No. 5-F Stainless (Type 416 Mod)	0.25	0.27	0.29	0.29	0.28	0.28	0.28	0.26	0.25	0.25	0.25	
CarTech® 302 Stainless	0.68	0.68	0.65	0.60	0.59	0.61	0.64	0.66	0.71	0.73	0.75	
CarTech® 303 Stainless	0.69	0.69	0.66	0.61	0.60	0.62	0.65	0.67	0.72	0.74	0.76	
CarTech® 303 Se Stainless	0.68	0.68	0.65	0.60	0.59	0.61	0.64	0.66	0.71	0.73	0.75	
CarTech® 304/304L Stainless	0.74	0.73	0.71	0.66	0.65	0.67	0.70	0.72	0.77	0.79	0.81	
CarTech® 305 Stainless	0.86	0.86	0.81	0.75	0.73	0.76	0.80	0.83	0.90	0.93	0.95	
CarTech® 309 Stainless	0.97	0.96	0.91	0.84	0.83	0.86	0.90	0.95	1.03	1.06	1.08	
CarTech® 310 Stainless	1.33	1.31	1.23	1.12	1.10	1.14	1.21	1.28	1.42	1.45	1.50	
CarTech® 316/316L Stainless	1.02	1.02	0.99	0.89	0.86	0.90	0.92	0.93	1.01	1.06	1.10	
CarTech® 316L Stainless	1.02	1.02	0.99	0.89	0.86	0.90	0.92	0.93	1.01	1.06	1.10	
CarTech® 321 Stainless	0.80	0.80	0.75	0.70	0.68	0.71	0.74	0.77	0.83	0.86	0.88	

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CarTech® 347 Stainless	0.83	0.82	0.78	0.72	0.70	0.73	0.76	0.80	0.86	0.88	0.91	
CarTech® 403 Stainless	0.25	0.27	0.28	0.29	0.27	0.27	0.27	0.25	0.24	0.24	0.24	
CarTech® 410 Stainless	0.25	0.27	0.28	0.29	0.27	0.27	0.27	0.25	0.24	0.24	0.24	
CarTech® 416 Stainless	0.25	0.27	0.29	0.29	0.28	0.28	0.28	0.26	0.25	0.25	0.25	
CarTech® 416 (No. 5) Stainless	0.25	0.27	0.29	0.29	0.28	0.28	0.28	0.26	0.25	0.25	0.25	
CarTech® 416 RS Stainless	0.25	0.27	0.29	0.29	0.28	0.28	0.28	0.26	0.25	0.25	0.25	
CarTech® 416BQ Stainless (No. 5BQ)	0.25	0.27	0.29	0.29	0.28	0.28	0.28	0.26	0.25	0.25	0.25	
CarTech® 420 Stainless	0.25	0.27	0.29	0.29	0.28	0.28	0.28	0.26	0.25	0.25	0.25	
CarTech® 420 Mod Stainless	0.25	0.27	0.29	0.29	0.28	0.28	0.28	0.26	0.25	0.25	0.25	
CarTech® 420F Stainless	0.25	0.27	0.29	0.29	0.28	0.28	0.28	0.26	0.25	0.25	0.25	
CarTech® 430 Stainless	0.28	0.30	0.30	0.31	0.31	0.31	0.31	0.29	0.28	0.27	0.27	
CarTech® 430F Stainless	0.28	0.30	0.30	0.31	0.31	0.31	0.31	0.29	0.28	0.27	0.27	
CarTech® 430FR Stainless	0.28	0.30	0.30	0.31	0.31	0.31	0.31	0.29	0.28	0.27	0.27	
CarTech® 431 Stainless	0.36	0.37	0.38	0.38	0.36	0.37	0.37	0.37	0.37	0.37	0.37	
CarTech® 434 Stainless	0.36	0.37	0.40	0.39	0.37	0.37	0.36	0.34	0.34	0.34	0.34	
CarTech® 440A Stainless	0.28	0.30	0.30	0.31	0.31	0.31	0.31	0.29	0.28	0.27	0.27	
CarTech® 440C Stainless	0.28	0.30	0.30	0.31	0.31	0.31	0.31	0.29	0.28	0.27	0.27	
CarTech® 440F-Se Stainless	0.28	0.30	0.30	0.31	0.31	0.31	0.31	0.29	0.28	0.27	0.27	
CarTech® 446 Stainless	0.31	0.33	0.34	0.35	0.34	0.34	0.34	0.32	0.31	0.31	0.31	
CarTech® 204-Cu Stainless	0.56	0.56	0.58	0.54	0.53	0.54	0.55	0.54	0.55	0.55	0.56	
CarTech® Consumet® 304L-SCQ	0.68	0.68	0.65	0.60	0.59	0.61	0.64	0.66	0.71	0.73	0.75	
CarTech® Custom 450® Stainless	0.66	0.67	0.65	0.61	0.59	0.60	0.62	0.63	0.66	0.68	0.69	
CarTech® Custom 455® Stainless	0.72	0.73	0.69	0.64	0.63	0.65	0.68	0.70	0.74	0.77	0.79	
CarTech® Custom 465® Stainless	0.87	0.87	0.84	0.76	0.73	0.77	0.79	0.82	0.89	0.91	0.95	
CarTech® Custom 475™ Stainless	1.20	1.29	1.46	1.25	1.02	0.95	0.89	0.86	0.98	1.08	1.13	
CarTech® Custom Flo 302HQ Stainless	0.72	0.72	0.69	0.64	0.63	0.65	0.68	0.70	0.75	0.77	0.79	
CarTech® EnduraMet® 2205 Stainless	0.80	0.83	0.83	0.77	0.73	0.76	0.75	0.72	0.78	0.80	0.82	
CarTech® Gall-Tough® PLUS Stainless	0.73	0.75	0.74	0.68	0.66	0.69	0.70	0.68	0.75	0.77	0.79	
CarTech® Gall-Tough® Stainless	0.47	0.48	0.47	0.44	0.43	0.44	0.46	0.46	0.48	0.48	0.49	
CarTech® 15Cr-5Ni Project 70+® Stainless	0.58	0.59	0.56	0.54	0.52	0.53	0.56	0.57	0.59	0.61	0.61	
CarTech® Custom 630 Project 70+® Stainless	0.56	0.58	0.56	0.54	0.52	0.53	0.56	0.57	0.59	0.60	0.62	

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CarTech® 303 Project 70+® Escomatic Quality	0.69	0.69	0.66	0.61	0.60	0.62	0.65	0.67	0.72	0.74	0.76	
CarTech® 303 Project 70+® Stainless	0.69	0.69	0.66	0.61	0.60	0.62	0.65	0.67	0.72	0.74	0.76	
CarTech® 304/304L Project 70+® Stainless	0.74	0.73	0.71	0.66	0.65	0.67	0.70	0.72	0.77	0.79	0.81	
CarTech® 316/316L Project 70+® Stainless	1.06	1.06	1.03	0.93	0.90	0.94	0.96	0.97	1.05	1.10	1.14	
CarTech® 416 Project 70+® Stainless	0.25	0.27	0.29	0.29	0.28	0.28	0.28	0.26	0.25	0.25	0.25	
CarTech® Pyrowear® 675 Stainless	0.68	0.76	0.89	0.80	0.65	0.59	0.54	0.51	0.56	0.61	0.64	
CarTech® SCF 19® Alloy	1.51	1.52	1.49	1.33	1.26	1.34	1.35	1.36	1.50	1.57	1.61	
CarTech® 304H Stainless	0.70	0.69	0.67	0.62	0.61	0.63	0.66	0.68	0.73	0.75	0.77	
CarTech® 410 Mod Stainless	0.25	0.27	0.28	0.29	0.27	0.27	0.27	0.25	0.24	0.24	0.24	
CarTech® TrimRite® Stainless	0.34	0.37	0.38	0.37	0.35	0.37	0.36	0.34	0.33	0.34	0.35	
CarTech® 409Cb Stainless	0.25	0.26	0.27	0.28	0.27	0.27	0.27	0.26	0.25	0.24	0.24	
CarTech® 409Cb High Nickel Stainless	0.28	0.30	0.32	0.32	0.30	0.31	0.31	0.29	0.29	0.29	0.29	
CarTech® 2507 Super Duplex Stainless	0.90	0.92	0.94	0.84	0.80	0.83	0.83	0.81	0.86	0.90	0.92	
CarTech® Ni-Cu K500	4.01	3.92	3.55	3.14	3.06	3.23	3.53	3.86	4.32	4.50	4.65	
CarTech® 330 Stainless	2.02	1.98	1.81	1.63	1.62	1.69	1.81	1.94	2.17	2.24	2.31	
CarTech® 317 Stainless	1.19	1.21	1.18	1.06	1.02	1.08	1.09	1.11	1.20	1.26	1.28	
CarTech® A-21®							0.43	0.42	0.43	0.43	0.44	
CarTech® Super A-21®							0.70	0.64	0.66	0.66	0.65	

AEROSPACE AND HIGH TEMPERATURE ALLOYS

Alloy Description

CarTech® A-286 Alloy	1.65	1.63	1.53	1.39	1.34	1.41	1.47	1.54	1.71	1.78	1.83	
CarTech® Alloy 2 (159 ALY / MP159)	7.64	7.29	7.76	7.38	6.50	5.73	5.30	4.70	5.77	6.13	6.33	
CarTech® 636 (422 SS)	0.46	0.48	0.51	0.50	0.46	0.46	0.44	0.42	0.42	0.43	0.43	
CarTech® Greek Ascoloy (418 SS)	0.68	0.69	0.70	0.70	0.66	0.64	0.65	0.65	0.65	0.64	0.65	
CarTech® L-605 Alloy	7.97	8.27	9.15	8.63	7.48	6.63	6.36	5.76	6.72	7.07	7.18	
CarTech® Waspaloy	4.72	4.70	4.71	4.20	3.88	3.83	3.90	3.85	4.50	4.75	4.86	
CarTech® 350 (Pyromet® 350)	0.71	0.73	0.75	0.67	0.63	0.66	0.66	0.64	0.67	0.70	0.71	
CarTech® 355 (Pyromet® 355)	0.70	0.72	0.74	0.67	0.63	0.66	0.66	0.64	0.67	0.70	0.71	
CarTech® 41 (Pyromet® 41)	4.89	4.90	4.91	4.37	4.05	4.06	4.09	3.98	4.60	4.87	4.99	
CarTech® 600 (Pyromet® 600)	3.27	3.12	2.77	2.40	2.36	2.52	2.76	2.97	3.46	3.62	3.74	

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CarTech® 625 (Pyromet® 625)	4.37	4.28	4.11	3.64	3.56	3.71	3.85	3.87	4.34	4.55	4.63	
CarTech® 680 (Pyromet® 680)	3.67	3.63	3.52	3.11	2.99	3.10	3.18	3.15	3.54	3.73	3.81	
CarTech® 706 (Pyromet® 706)	2.52	2.42	2.27	2.07	2.07	2.12	2.27	2.32	2.60	2.69	2.71	
CarTech® 718 (Pyromet® 718)	3.53	3.42	3.27	2.95	2.93	3.00	3.17	3.20	3.56	3.70	3.75	
CarTech® 720 (Pyromet® 720)	4.71	4.70	4.72	4.24	3.90	3.80	3.87	3.83	4.49	4.73	4.86	
CarTech® 80A (Pyromet® 80A)	3.51	3.35	2.99	2.61	2.59	2.74	2.99	3.19	3.69	3.85	3.97	
CarTech® 882 (Pyromet® 882)	0.36	0.39	0.40	0.39	0.36	0.37	0.36	0.33	0.32	0.33	0.33	
CarTech® 901 (Pyromet® 901)	2.73	2.68	2.52	2.20	2.14	2.28	2.37	2.40	2.72	2.85	2.92	
CarTech® CTX-1 (Pyromet® CTX-1)	3.40	3.46	3.60	3.27	2.93	2.75	2.80	2.75	3.28	3.46	3.55	
CarTech® CTX-3 (Pyromet® CTX-3)	3.46	3.51	3.68	3.34	3.03	2.85	2.91	2.85	3.35	3.52	3.61	
CarTech® CTX-909 (Pyromet® CTX-909)	3.45	3.50	3.67	3.33	3.02	2.84	2.90	2.84	3.34	3.51	3.60	
CarTech® X-750 (Pyromet® X-750)	3.22	3.08	2.74	2.38	2.35	2.49	2.73	2.93	3.41	3.57	3.69	
CarTech® Thermo-Span® Alloy	4.85	5.03	5.56	5.14	4.55	4.09	4.01	3.70	4.38	4.62	4.70	
CarTech® 286-LNi Alloy	1.24	1.24	1.18	1.08	1.04	1.07	1.14	1.19	1.31	1.36	1.40	

MAGNETIC, CONTROLLED EXPANSION AND ELECTRICAL ALLOYS

Alloy Description

CarTech® 485 Alloy	2.48	2.42	2.20	1.96	1.92	2.02	2.18	2.35	2.67	2.77	2.87	
CarTech® 22-3 High Thermal Expansion	1.29	1.27	1.17	1.07	1.04	1.08	1.16	1.23	1.37	1.42	1.46	
CarTech® Electrical Iron	0.20	0.22	0.23	0.24	0.22	0.21	0.21	0.19	0.18	0.17	0.17	
CarTech® Glass Sealing "42-6"	2.32	2.27	2.06	1.86	1.81	1.91	2.05	2.20	2.49	2.57	2.66	
CarTech® Glass Sealing 42	2.21	2.16	1.98	1.77	1.73	1.82	1.96	2.10	2.37	2.46	2.54	
CarTech® Glass Sealing 52	2.68	2.62	2.38	2.12	2.08	2.19	2.36	2.54	2.88	2.99	3.09	
CarTech® High Permeability "49"® Alloy	2.48	2.43	2.20	1.96	1.92	2.02	2.18	2.35	2.68	2.77	2.87	
CarTech® HyMu "80"® Alloy	4.37	4.29	3.93	3.46	3.36	3.56	3.80	4.05	4.61	4.82	5.00	
CarTech® HyMu "80"® Mark II Alloy	4.37	4.29	3.93	3.46	3.36	3.56	3.80	4.05	4.61	4.82	5.00	
CarTech® HyMu "80"® Mark III Alloy	4.37	4.29	3.93	3.46	3.36	3.56	3.80	4.05	4.61	4.82	5.00	
CarTech® HyMu "800"	4.43	4.35	4.00	3.51	3.41	3.62	3.85	4.10	4.65	4.87	5.05	
CarTech® Invar 36 Alloy	1.97	1.93	1.75	1.58	1.54	1.62	1.74	1.87	2.10	2.18	2.26	
CarTech® Low Expansion "42"® Alloy	2.21	2.16	1.98	1.77	1.73	1.82	1.96	2.10	2.37	2.46	2.54	
CarTech® Low Expansion "42"® Thermostat	2.21	2.16	1.98	1.77	1.73	1.82	1.96	2.10	2.37	2.46	2.54	

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CarTech® Low Expansion 43-PH	2.31	2.26	2.06	1.86	1.81	1.91	2.05	2.20	2.49	2.57	2.66	
CarTech® Nickel 200 Alloy	5.07	4.93	4.45	3.95	3.88	4.09	4.43	4.80	5.47	5.69	5.89	
CarTech® Nickel 201 Alloy	5.00	4.86	4.38	3.88	3.81	4.02	4.36	4.73	5.40	5.62	5.82	
CarTech® Nickel 205 Alloy	5.00	4.86	4.38	3.88	3.81	4.02	4.36	4.73	5.40	5.62	5.82	
CarTech® Silicon Core Iron "A-FM"	0.15	0.17	0.18	0.19	0.17	0.17	0.17	0.15	0.14	0.13	0.13	
CarTech® Silicon Core Iron "B"	0.19	0.21	0.22	0.23	0.21	0.21	0.21	0.19	0.18	0.17	0.17	
CarTech® Silicon Core Iron "B-FM"	0.19	0.21	0.22	0.23	0.21	0.21	0.21	0.19	0.18	0.17	0.17	
CarTech® Temperature Compensator "30"® Type 2	1.60	1.57	1.43	1.29	1.25	1.32	1.42	1.51	1.71	1.77	1.83	
CarTech® Temperature Compensator "30"® Type 4	1.60	1.57	1.43	1.29	1.25	1.32	1.42	1.51	1.71	1.77	1.83	
CarTech® Temperature Compensator "32"	1.72	1.69	1.54	1.37	1.34	1.41	1.52	1.63	1.84	1.91	1.98	
CarTech® Chrome Core® 8-FM Alloy	0.26	0.28	0.28	0.28	0.27	0.27	0.27	0.25	0.24	0.23	0.23	
CarTech® Chrome Core® 12-FM Alloy	0.28	0.30	0.31	0.31	0.29	0.29	0.29	0.27	0.26	0.26	0.26	
CarTech® Chrome Core® 13-FM	0.28	0.30	0.32	0.31	0.30	0.30	0.30	0.28	0.27	0.27	0.27	
CarTech® Chrome Core® 13-XP	0.38	0.40	0.45	0.44	0.40	0.39	0.39	0.36	0.36	0.36	0.36	
CarTech® Chrome Core® 18-FM Alloy	0.42	0.44	0.47	0.45	0.42	0.43	0.42	0.39	0.39	0.39	0.40	
CarTech® Free-Cut Invar "36"® Alloy	1.97	1.93	1.75	1.58	1.54	1.62	1.74	1.87	2.10	2.18	2.26	
CarTech® High Expansion 20Ni-6Mn	1.21	1.18	1.11	1.00	0.98	1.02	1.09	1.15	1.27	1.31	1.35	
CarTech® High Expansion 72	2.18	2.12	2.19	1.96	2.05	2.10	2.17	2.06	2.16	2.23	2.26	
CarTech® Hiperco® 27 Alloy	2.95	3.16	3.66	3.41	2.83	2.43	2.26	1.96	2.43	2.59	2.66	
CarTech® Hiperco® 50 Alloy	5.32	5.70	6.65	6.19	5.12	4.36	4.05	3.49	4.36	4.68	4.81	
CarTech® Hiperco® 50 HS Alloy	5.25	5.63	6.58	6.12	5.05	4.29	3.98	3.42	4.29	4.61	4.74	
CarTech® Hiperco® 50A Alloy	5.32	5.70	6.65	6.19	5.12	4.36	4.05	3.49	4.36	4.68	4.81	
CarTech® Hy Mu 77 Alloy	4.02	3.92	3.54	3.14	3.07	3.25	3.52	3.83	4.34	4.51	4.67	
CarTech® Hy-Ra "49"® Alloy	2.48	2.43	2.20	1.96	1.92	2.02	2.18	2.35	2.68	2.77	2.87	
CarTech® Kovar® Alloy	2.01	2.10	2.28	1.98	1.58	1.40	1.42	1.52	1.80	1.97	2.08	
CarTech® MagneDur® 20-4 Alloy	1.47	1.48	1.42	1.25	1.20	1.27	1.30	1.32	1.46	1.55	1.59	
CarTech® No. 1 JR® Type 1 Alloy	0.25	0.27	0.29	0.29	0.28	0.28	0.28	0.26	0.25	0.25	0.25	
CarTech® No. 1 JR® Type 2 Alloy	0.25	0.27	0.29	0.29	0.28	0.28	0.28	0.26	0.25	0.25	0.25	
CarTech® Rotelloy 3 Alloy	5.32	5.70	6.65	6.19	5.12	4.36	4.05	3.49	4.36	4.68	4.81	
CarTech® Rotelloy 8 Alloy	5.25	5.63	6.58	6.12	5.05	4.29	3.98	3.42	4.29	4.61	4.74	
CarTech® Thermocouple Iron Type JP	0.12	0.14	0.15	0.16	0.14	0.14	0.14	0.12	0.11	0.10	0.10	

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Raw Material and Energy Surcharges 2020 - USD/lb.

(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® Mumetal	4.30	4.23	3.88	3.41	3.31	3.51	3.75	4.02	4.55	4.76	4.93	
CarTech® Hypocore	0.30	0.36	0.46	0.41	0.30	0.22	0.20	0.18	0.20	0.23	0.24	
CarTech® High Expansion 25-8	1.46	1.43	1.33	1.20	1.18	1.23	1.31	1.40	1.56	1.61	1.66	
CarTech® Low Expansion 50	2.67	2.61	2.37	2.11	2.07	2.18	2.35	2.53	2.86	2.97	3.08	
CarTech® Low Expansion 40	2.17	2.12	1.94	1.74	1.70	1.78	1.92	2.06	2.32	2.41	2.49	
CarTech® Low Expansion 45	2.34	2.29	2.07	1.85	1.81	1.91	2.06	2.22	2.52	2.61	2.71	
CarTech® High Expansion 19-7	1.16	1.15	1.06	0.97	0.94	0.99	1.05	1.11	1.23	1.27	1.31	
CarTech® High Expansion 19-2	1.15	1.14	1.07	0.97	0.95	0.99	1.05	1.11	1.23	1.27	1.31	
CarTech® Low Expansion 38-7	2.09	2.04	1.86	1.68	1.64	1.72	1.85	1.98	2.24	2.31	2.39	

MEDICAL ALLOYS

Alloy Description

CarTech® BioDur® 108 Alloy	0.45	0.46	0.51	0.47	0.47	0.48	0.47	0.41	0.41	0.42	0.43	
CarTech® BioDur® 22Cr-13Ni-5Mn Stainless	1.10	1.10	1.08	0.98	0.95	1.00	1.02	1.02	1.11	1.15	1.19	
CarTech® BioDur® 316LS Stainless	1.19	1.20	1.16	1.04	1.00	1.05	1.08	1.09	1.18	1.23	1.27	
CarTech® BioDur® 470/Custom 470	0.86	0.86	0.83	0.77	0.73	0.77	0.80	0.82	0.88	0.92	0.94	
CarTech® BioDur® Carpenter CCM® Alloy	8.34	8.78	10.00	9.30	7.94	7.00	6.54	5.65	6.84	7.30	7.41	
CarTech® BioDur® TrimRite® Stainless	0.34	0.37	0.38	0.37	0.35	0.37	0.36	0.34	0.33	0.34	0.35	
CarTech® Micro-Melt® BioDur® Carpenter CCM® Alloy	8.34	8.78	10.00	9.30	7.94	7.00	6.54	5.65	6.84	7.30	7.41	
CarTech® Micro-Melt® BioDur® CCM Plus®	7.93	8.34	9.50	8.83	7.54	6.65	6.21	5.36	6.49	6.93	7.03	
CarTech® Micro-Melt® BioDur® CCM LS Alloy	8.34	8.78	10.00	9.30	7.94	7.00	6.54	5.65	6.84	7.30	7.41	

CORROSION-RESISTANT ALLOYS

Alloy Description

CarTech® Alloy C-276	4.60	4.62	4.57	4.00	3.78	3.94	3.96	3.94	4.39	4.66	4.77	
CarTech® MP35N* Alloy	8.98	8.57	9.00	8.47	7.55	6.84	6.42	5.84	6.98	7.38	7.62	
CarTech® MP35N* Alloy (Tubing)	17.96	17.15	17.99	16.93	15.09	13.67	12.83	11.68	13.96	14.76	15.24	
CarTech® Ni-Cu 400	4.15	4.06	3.68	3.27	3.18	3.37	3.66	4.02	4.48	4.66	4.81	
CarTech® Ni-Cu 405	4.15	4.06	3.68	3.27	3.18	3.37	3.66	4.02	4.48	4.66	4.81	
CarTech® Custom Age 625 PLUS® / 725	4.23	4.13	3.96	3.51	3.44	3.58	3.73	3.75	4.20	4.40	4.48	
CarTech® 925	2.81	2.72	2.52	2.26	2.23	2.34	2.45	2.48	2.79	2.90	2.94	

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Raw Material and Energy Surcharges 2020 - USD/lb.

(applicable at time of shipment)



Alloy Description

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

*MP35N is a trademark of SPS Technologies, Inc.

BEARING AND GEAR STEELS

CarTech® 52100	0.26	0.27	0.27	0.27	0.26	0.26	0.25	0.22	0.21	0.23	0.22	
CarTech® 52100T2	0.26	0.27	0.27	0.28	0.27	0.26	0.25	0.22	0.22	0.23	0.22	
CarTech® Aero-A6	0.36	0.36	0.36	0.36	0.34	0.33	0.32	0.29	0.28	0.29	0.28	
CarTech® BG-42	1.46	1.40	1.43	1.37	1.30	1.24	1.18	1.10	1.09	1.11	1.09	
CarTech® CBS 223	0.74	0.73	0.73	0.72	0.68	0.66	0.63	0.58	0.58	0.59	0.57	
CarTech® CBS 600	0.48	0.48	0.49	0.49	0.47	0.45	0.44	0.39	0.39	0.41	0.40	
CarTech® CBS50Nil	1.64	1.57	1.57	1.50	1.41	1.33	1.29	1.21	1.24	1.26	1.25	
CarTech® CSS-42L	2.52	2.32	2.59	2.41	2.17	1.95	1.75	1.54	1.73	1.84	1.88	
CarTech® Dynaflex	0.63	0.62	0.62	0.61	0.58	0.55	0.53	0.48	0.48	0.48	0.47	
CarTech® L-6490	1.16	1.11	1.14	1.09	1.03	0.97	0.92	0.84	0.84	0.85	0.84	
CarTech® Lesco® 53	0.96	0.93	0.96	0.92	0.87	0.82	0.80	0.74	0.76	0.79	0.79	
CarTech® Pyrowear® Alloy 53	0.96	0.93	0.96	0.92	0.87	0.82	0.80	0.74	0.76	0.79	0.79	
CarTech® M-50	1.32	1.28	1.30	1.25	1.18	1.12	1.06	0.98	0.97	0.99	0.97	
CarTech® QC61	2.77	2.53	2.83	2.60	2.30	2.01	1.81	1.61	1.94	2.10	2.16	
CarTech® QC64	2.62	2.40	2.68	2.47	2.19	1.92	1.73	1.53	1.82	1.97	2.02	

ALLOY STEELS

Alloy Description

CarTech® 16NCD13	0.50	0.50	0.49	0.48	0.45	0.43	0.43	0.42	0.43	0.45	0.45	
CarTech® 300M	0.45	0.44	0.44	0.44	0.41	0.39	0.39	0.36	0.37	0.39	0.38	
CarTech® 3311	0.49	0.48	0.47	0.46	0.44	0.41	0.42	0.41	0.43	0.45	0.45	
CarTech® 35NCD16	0.53	0.52	0.51	0.50	0.48	0.45	0.46	0.46	0.47	0.48	0.49	
CarTech® 4130 , 4140, 4150	0.27	0.28	0.29	0.29	0.28	0.27	0.27	0.23	0.23	0.24	0.23	
CarTech® 4319, 4320, 4343	0.41	0.41	0.40	0.40	0.38	0.36	0.36	0.34	0.35	0.36	0.36	
CarTech® 4330+V, 4335+V	0.46	0.45	0.45	0.45	0.42	0.40	0.40	0.37	0.38	0.40	0.39	
CarTech® 4340 VV	0.42	0.42	0.42	0.42	0.40	0.38	0.38	0.36	0.37	0.38	0.38	
CarTech® 4340	0.40	0.40	0.40	0.40	0.38	0.36	0.36	0.34	0.35	0.36	0.36	
CarTech® 4340L	0.44	0.44	0.44	0.44	0.42	0.40	0.40	0.37	0.39	0.40	0.40	

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Raw Material and Energy Surcharges 2020 - USD/lb.
(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® 4340L+	0.48	0.48	0.48	0.48	0.46	0.43	0.43	0.41	0.42	0.43	0.43	
CarTech® 6150	0.33	0.34	0.34	0.34	0.32	0.31	0.30	0.27	0.26	0.27	0.26	
CarTech® 8620	0.31	0.31	0.32	0.32	0.30	0.29	0.29	0.26	0.26	0.27	0.26	
CarTech® 9310 V V	0.52	0.51	0.50	0.49	0.47	0.43	0.44	0.43	0.46	0.47	0.47	
CarTech® 9310, 9315	0.49	0.48	0.47	0.46	0.44	0.41	0.42	0.41	0.43	0.44	0.44	
CarTech® AerMet® 100 Alloy	2.11	2.21	2.42	2.21	1.91	1.75	1.70	1.56	1.86	1.98	2.03	
CarTech® AerMet® 310 Alloy	2.31	2.42	2.66	2.44	2.10	1.90	1.83	1.68	2.02	2.15	2.22	
CarTech® AerMet® 340 Alloy	2.45	2.57	2.82	2.58	2.23	2.03	1.96	1.79	2.14	2.28	2.35	
CarTech® AF1410	2.31	2.11	2.34	2.16	1.92	1.69	1.56	1.42	1.68	1.79	1.85	
CarTech® No. 158® Alloy	0.52	0.52	0.50	0.49	0.47	0.44	0.45	0.44	0.46	0.48	0.48	
CarTech® D6AC	0.44	0.44	0.46	0.45	0.43	0.41	0.40	0.37	0.36	0.36	0.36	
CarTech® GNB100	0.72	0.70	0.70	0.68	0.64	0.60	0.60	0.58	0.60	0.60	0.61	
CarTech® HP-9-4-20	1.36	1.27	1.33	1.25	1.13	1.03	1.00	0.96	1.08	1.12	1.16	
CarTech® HP-9-4-30	1.22	1.14	1.21	1.13	1.03	0.93	0.90	0.86	0.96	1.00	1.04	
CarTech® HTC	0.31	0.32	0.33	0.34	0.33	0.32	0.32	0.29	0.28	0.27	0.27	
CarTech® HY180	1.83	1.70	1.82	1.69	1.53	1.37	1.31	1.23	1.41	1.48	1.53	
CarTech® HYTUF	0.50	0.49	0.49	0.48	0.46	0.43	0.44	0.43	0.44	0.44	0.45	
CarTech® L-6305	0.41	0.41	0.42	0.42	0.40	0.38	0.37	0.34	0.33	0.32	0.31	
CarTech® NiMark® Alloy 250	2.08	2.15	2.24	1.99	1.77	1.73	1.71	1.63	1.92	2.05	2.11	
CarTech® NiMark+A273 Alloy 250-LR	2.08	2.15	2.24	1.99	1.77	1.73	1.71	1.63	1.92	2.05	2.11	
CarTech® NiMark® Alloy 300	2.21	2.29	2.41	2.14	1.91	1.84	1.81	1.73	2.02	2.16	2.23	
CarTech® Nitalloy 135	0.28	0.29	0.30	0.31	0.29	0.28	0.28	0.25	0.24	0.24	0.24	
CarTech® Nitalloy N	0.52	0.51	0.51	0.50	0.47	0.45	0.46	0.45	0.46	0.47	0.47	
CarTech® PremoMax® Alloy	0.50	0.50	0.49	0.49	0.47	0.45	0.44	0.41	0.41	0.42	0.40	
CarTech® PremoMet® Alloy	0.72	0.70	0.68	0.66	0.63	0.59	0.60	0.58	0.60	0.62	0.62	
CarTech® QM54	2.13	1.98	2.08	1.94	1.77	1.60	1.55	1.47	1.64	1.71	1.76	
CarTech® UT-18	0.45	0.45	0.47	0.46	0.44	0.42	0.41	0.38	0.37	0.36	0.36	
CarTech® UT-19	0.57	0.56	0.55	0.54	0.51	0.48	0.49	0.49	0.51	0.51	0.52	

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Raw Material and Energy Surcharges 2020 - USD/lb. (applicable at time of shipment)



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

SPECIALTY ALLOYS

Alloy Description

CarTech® AEREX	16.04	15.08	15.44	14.63	13.72	12.71	12.39	12.04	13.38	13.86	14.16	
CarTech® JETHETE	1.24	1.18	1.12	1.07	1.00	0.93	0.98	1.01	1.11	1.15	1.18	
CarTech® QS53	2.00	1.85	1.99	1.86	1.68	1.51	1.40	1.28	1.45	1.54	1.57	
CarTech® XM-27	0.60	0.60	0.61	0.61	0.60	0.58	0.57	0.54	0.54	0.56	0.55	

SPECIAL PURPOSE ALLOYS

Alloy Description

CarTech® 180 Alloy	3.17	3.14	2.86	2.53	2.44	2.58	2.85	3.20	3.40	3.56	3.63	
CarTech® CBX Cupron® Alloy	3.73	3.67	3.33	2.94	2.87	3.03	3.32	3.67	4.01	4.18	4.30	
CarTech® Cupron® Alloy	3.73	3.67	3.33	2.94	2.87	3.03	3.32	3.67	4.01	4.18	4.30	
CarTech® Evanohm® Alloy R	3.91	3.81	3.45	3.08	3.04	3.20	3.45	3.72	4.22	4.38	4.53	
CarTech® Manganin 13	2.51	2.50	2.31	2.03	1.96	2.06	2.30	2.58	2.68	2.81	2.84	
CarTech® NIAL Alloy	4.88	4.74	4.29	3.81	3.73	3.94	4.26	4.62	5.26	5.47	5.67	
CarTech® NIAL Alloy / Low Resistivity NIAL	4.88	4.74	4.29	3.81	3.73	3.94	4.26	4.62	5.26	5.47	5.67	
CarTech® PCLW-SNX Alloy	2.54	2.54	2.31	2.04	1.95	2.06	2.31	2.64	2.71	2.86	2.89	
CarTech® Tophel® Alloy	4.68	4.55	4.13	3.67	3.60	3.80	4.10	4.44	5.05	5.25	5.43	
CarTech® Tophet® Alloy A	4.24	4.13	3.74	3.34	3.29	3.46	3.73	4.03	4.57	4.75	4.92	
CarTech® Tophet® Alloy C	3.23	3.15	2.87	2.56	2.52	2.65	2.85	3.08	3.47	3.61	3.73	

VALVE STEELS

Alloy Description

CarTech® 31V (Pyromet® 31V)	3.18	3.06	2.81	2.48	2.46	2.58	2.75	2.84	3.23	3.38	3.45	
CarTech® 751 (Pyromet® 751)	3.20	3.06	2.72	2.36	2.32	2.48	2.72	2.92	3.40	3.55	3.67	
CarTech® 80A (Pyromet® 80A) Valve	3.51	3.35	2.99	2.61	2.59	2.74	2.99	3.19	3.69	3.85	3.97	

HIGH SPEED STEELS (not applicable to powder products)

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Raw Material and Energy Surcharges 2020 - USD/lb.

(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® M1 - Tatmo	1.72	1.64	1.68	1.60	1.50	1.41	1.33	1.24	1.23	1.26	1.26	
CarTech® M2 - Double 6	2.43	2.31	2.27	2.16	2.03	1.92	1.85	1.76	1.76	1.76	1.74	
CarTech® M2 - Double 6-XL	2.43	2.31	2.27	2.16	2.03	1.92	1.85	1.76	1.76	1.76	1.74	
CarTech® M2 - HS29	2.34	2.23	2.19	2.08	1.96	1.85	1.79	1.70	1.70	1.70	1.68	
CarTech® M2 - HS29-XL	2.34	2.23	2.19	2.08	1.96	1.85	1.79	1.70	1.70	1.70	1.68	
CarTech® M3I - Corsair	2.49	2.36	2.32	2.20	2.08	1.96	1.89	1.79	1.79	1.78	1.76	
CarTech® M3II - Crusader	2.69	2.55	2.50	2.37	2.23	2.11	2.03	1.92	1.92	1.91	1.87	
CarTech® M4 - Stark	2.81	2.67	2.59	2.46	2.32	2.19	2.10	1.99	1.99	1.96	1.91	
CarTech® M7 - Tatmo-VN	2.06	1.95	1.98	1.88	1.77	1.66	1.57	1.46	1.46	1.47	1.46	
CarTech® M11 - Vancomo	1.80	1.70	1.78	1.68	1.57	1.47	1.37	1.26	1.27	1.31	1.31	
CarTech® M33 - Kelvan	2.47	2.31	2.48	2.32	2.12	1.94	1.77	1.59	1.68	1.76	1.78	
CarTech® M35 - HS 105	2.68	2.52	2.56	2.41	2.24	2.08	1.97	1.83	1.89	1.92	1.91	
CarTech® M42 - Dynamax	2.43	2.27	2.44	2.28	2.09	1.91	1.74	1.56	1.65	1.73	1.75	
CarTech® M50 - CM-50	1.05	1.01	1.03	0.99	0.93	0.88	0.83	0.76	0.76	0.77	0.76	
CarTech® M51	3.84	3.59	3.63	3.41	3.15	2.90	2.73	2.54	2.65	2.68	2.66	
CarTech® M52 - CM52	1.96	1.87	1.84	1.75	1.65	1.56	1.50	1.42	1.41	1.41	1.39	
CarTech® T15 - Dynavan	4.13	3.89	3.77	3.57	3.34	3.12	2.99	2.85	2.90	2.86	2.80	
CarTech® Abscido	1.76	1.68	1.64	1.56	1.48	1.40	1.34	1.26	1.26	1.24	1.21	
CarTech® Supersaw	1.80	1.67	1.82	1.70	1.54	1.40	1.27	1.12	1.21	1.27	1.28	

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	0.46	0.46	0.46	0.45	0.43	0.42	0.40	0.36	0.36	0.37	0.36	
CarTech® A6 - Lesco A6	0.36	0.36	0.37	0.37	0.35	0.34	0.32	0.29	0.28	0.30	0.29	
CarTech® A7 - BR-3	1.92	1.84	1.77	1.68	1.59	1.51	1.43	1.33	1.32	1.27	1.20	
CarTech® A7 - Brickmold	1.96	1.87	1.80	1.71	1.62	1.54	1.46	1.36	1.35	1.30	1.23	
CarTech® A8 - MGR	0.71	0.69	0.69	0.67	0.64	0.61	0.59	0.55	0.54	0.56	0.54	
CarTech® A8+ - MGR-MQ	0.71	0.69	0.69	0.67	0.64	0.61	0.59	0.55	0.54	0.56	0.54	
CarTech® A9 - Mazeman	0.87	0.85	0.84	0.81	0.76	0.72	0.70	0.65	0.66	0.67	0.65	
CarTech® A10 - Graph-Air	0.52	0.51	0.51	0.50	0.47	0.44	0.44	0.41	0.42	0.44	0.44	

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Raw Material and Energy Surcharges 2020 - USD/lb.

(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® A18 - Whitebear	1.19	1.14	1.12	1.08	1.02	0.97	0.92	0.85	0.85	0.83	0.80	
CarTech® D2 - Olympic	0.70	0.68	0.68	0.66	0.63	0.61	0.58	0.54	0.53	0.54	0.52	
CarTech® D3 - GSN	0.40	0.40	0.40	0.40	0.39	0.38	0.37	0.34	0.34	0.35	0.33	
CarTech® D4 - GSN+Mo	0.57	0.56	0.56	0.55	0.53	0.51	0.50	0.46	0.45	0.46	0.45	
CarTech® D5 - Riptide	0.60	0.57	0.63	0.60	0.56	0.52	0.48	0.42	0.45	0.48	0.48	
CarTech® D7 - BR-4	1.80	1.72	1.66	1.59	1.51	1.43	1.36	1.26	1.26	1.21	1.15	
CarTech® H10 - Dart	0.59	0.58	0.60	0.58	0.55	0.52	0.50	0.45	0.45	0.46	0.45	
CarTech® H11 - Dycast	0.56	0.56	0.56	0.55	0.52	0.50	0.48	0.43	0.43	0.44	0.43	
CarTech® H11+ - Dycast-VAR	0.56	0.56	0.56	0.55	0.52	0.50	0.48	0.43	0.43	0.44	0.43	
CarTech® H12 - L.P.D.®	0.73	0.71	0.71	0.69	0.65	0.62	0.60	0.56	0.56	0.57	0.56	
CarTech® H13 - VDC®	0.75	0.73	0.73	0.71	0.67	0.64	0.61	0.56	0.56	0.56	0.54	
CarTech® H13+ - VDC-MQ	0.75	0.73	0.73	0.71	0.67	0.64	0.61	0.56	0.56	0.56	0.54	
CarTech® H13++ - VDC-RF	0.72	0.70	0.70	0.68	0.64	0.61	0.59	0.54	0.53	0.54	0.52	
CarTech® H13-FM - Viscount	0.75	0.73	0.73	0.71	0.67	0.64	0.61	0.56	0.56	0.56	0.54	
CarTech® H14 - Lumdie	0.91	0.88	0.85	0.82	0.78	0.75	0.74	0.72	0.71	0.73	0.71	
CarTech® H19 - Lesco19	1.98	1.87	1.86	1.76	1.64	1.52	1.44	1.34	1.38	1.39	1.36	
CarTech® H21 - CLW	1.79	1.71	1.63	1.56	1.48	1.40	1.39	1.36	1.36	1.36	1.34	
CarTech® H26 - H26 Mod	3.42	3.24	3.08	2.93	2.77	2.61	2.59	2.54	2.55	2.55	2.52	
CarTech® H43 - Lesco 43	1.85	1.76	1.80	1.70	1.60	1.51	1.42	1.30	1.30	1.31	1.30	
CarTech® L6 - Montana	0.99	0.96	0.92	0.89	0.84	0.80	0.80	0.77	0.78	0.79	0.79	
CarTech® O1 - Badger	0.31	0.32	0.31	0.32	0.30	0.29	0.29	0.26	0.25	0.27	0.25	
CarTech® O6 - Graph-Mo	0.27	0.27	0.28	0.28	0.27	0.26	0.25	0.22	0.22	0.23	0.22	
CarTech® O7 - Lesco O7	0.47	0.46	0.45	0.45	0.43	0.41	0.40	0.37	0.37	0.38	0.37	
CarTech® S1 - XL®-Chisel	0.64	0.63	0.60	0.59	0.56	0.54	0.53	0.50	0.49	0.50	0.49	
CarTech® S2 - Trident	0.36	0.36	0.36	0.36	0.34	0.33	0.32	0.28	0.28	0.29	0.28	
CarTech® S4 - Damascus	0.23	0.24	0.24	0.24	0.24	0.23	0.22	0.19	0.19	0.20	0.19	
CarTech® S5 - Lanark	0.46	0.46	0.46	0.45	0.43	0.41	0.39	0.35	0.35	0.36	0.35	
CarTech® S7 - Bearcat	0.41	0.41	0.42	0.42	0.40	0.38	0.37	0.33	0.33	0.34	0.34	
CarTech® S7+ - S7-MQ	0.41	0.41	0.42	0.42	0.40	0.38	0.37	0.33	0.32	0.34	0.34	
CarTech® CAT4039	0.63	0.62	0.63	0.61	0.58	0.55	0.52	0.48	0.47	0.49	0.47	
CarTech® Chipper	0.58	0.57	0.58	0.56	0.54	0.52	0.50	0.45	0.45	0.46	0.45	

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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Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® HC-H13	0.82	0.79	0.79	0.76	0.72	0.69	0.66	0.60	0.60	0.60	0.58	
CarTech® Lescowear	1.44	1.38	1.35	1.29	1.22	1.16	1.11	1.04	1.03	1.01	0.98	
CarTech® LSC2367	0.79	0.77	0.79	0.76	0.72	0.68	0.65	0.59	0.59	0.60	0.59	
CarTech® Mandrel	0.45	0.44	0.43	0.43	0.40	0.38	0.39	0.37	0.39	0.41	0.40	
CarTech® Staminal®	0.50	0.49	0.48	0.47	0.45	0.42	0.42	0.40	0.42	0.44	0.43	
CarTech® Tplex	0.66	0.64	0.62	0.60	0.57	0.53	0.54	0.52	0.55	0.57	0.56	
CarTech® 420-FM - Saxman-FM	0.44	0.44	0.44	0.44	0.42	0.41	0.40	0.37	0.37	0.38	0.36	
CarTech® 420SS - Saxman6R	0.44	0.44	0.44	0.44	0.42	0.41	0.40	0.37	0.37	0.38	0.36	

Conversion Services (Natural Gas Surcharges)

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

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