

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	0.52	0.53	0.56									
CarTech® 15-15LC® Modified Stainless	0.52	0.53	0.55									
CarTech® 20Cb-3® Stainless	2.23	2.20	2.05									
CarTech® 20Mo-6® Stainless	2.46	2.45	2.34									
CarTech® 302HQ-FM® Stainless	0.72	0.72	0.69									
CarTech® 316L-SCQ® Stainless	1.06	1.06	1.03									
CarTech® 13-8 Stainless	0.81	0.82	0.82									
CarTech® 15Cr-5Ni	0.58	0.59	0.56									
CarTech® 18Cr-2Ni-12Mn	0.41	0.41	0.45									
CarTech® 18Cr-3Ni-12Mn	0.49	0.50	0.52									
CarTech® 21Cr-6Ni-9Mn	0.65	0.65	0.64									
CarTech® 22Cr-13Ni-5Mn	1.10	1.10	1.08									
CarTech® 275 Stainless	0.86	0.86	0.83									
CarTech® 302HQ-SFQ Stainless	0.72	0.72	0.69									
CarTech® Custom 631 (17Cr-7Ni)	0.62	0.62	0.59									
CarTech® 15-7PH Stainless	0.79	0.80	0.79									
CarTech® Custom 630 (17Cr-4Ni) Stainless	0.52	0.54	0.52									
CarTech® No. 5-F Stainless (Type 416 Mod)	0.25	0.27	0.29									
CarTech® 302 Stainless	0.68	0.68	0.65									
CarTech® 303 Stainless	0.69	0.69	0.66									
CarTech® 303 Se Stainless	0.68	0.68	0.65									
CarTech® 304/304L Stainless	0.74	0.73	0.71									
CarTech® 305 Stainless	0.86	0.86	0.81									
CarTech® 309 Stainless	0.97	0.96	0.91									
CarTech® 310 Stainless	1.33	1.31	1.23									
CarTech® 316/316L Stainless	1.02	1.02	0.99									
CarTech® 316L Stainless	1.02	1.02	0.99									
CarTech® 321 Stainless	0.80	0.80	0.75									

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CarTech® 347 Stainless	0.83	0.82	0.78									
CarTech® 403 Stainless	0.25	0.27	0.28									
CarTech® 410 Stainless	0.25	0.27	0.28									
CarTech® 416 Stainless	0.25	0.27	0.29									
CarTech® 416 (No. 5) Stainless	0.25	0.27	0.29									
CarTech® 416 RS Stainless	0.25	0.27	0.29									
CarTech® 416BQ Stainless (No. 5BQ)	0.25	0.27	0.29									
CarTech® 420 Stainless	0.25	0.27	0.29									
CarTech® 420 Mod Stainless	0.25	0.27	0.29									
CarTech® 420F Stainless	0.25	0.27	0.29									
CarTech® 430 Stainless	0.28	0.30	0.30									
CarTech® 430F Stainless	0.28	0.30	0.30									
CarTech® 430FR Stainless	0.28	0.30	0.30									
CarTech® 431 Stainless	0.36	0.37	0.38									
CarTech® 434 Stainless	0.36	0.37	0.40									
CarTech® 440A Stainless	0.28	0.30	0.30									
CarTech® 440C Stainless	0.28	0.30	0.30									
CarTech® 440F-Se Stainless	0.28	0.30	0.30									
CarTech® 446 Stainless	0.31	0.33	0.34									
CarTech® 204-Cu Stainless	0.56	0.56	0.58									
CarTech® Consumet® 304L-SCQ	0.68	0.68	0.65									
CarTech® Custom 450® Stainless	0.66	0.67	0.65									
CarTech® Custom 455® Stainless	0.72	0.73	0.69									
CarTech® Custom 465® Stainless	0.87	0.87	0.84									
CarTech® Custom 475™ Stainless	1.20	1.29	1.46									
CarTech® Custom Flo 302HQ Stainless	0.72	0.72	0.69									
CarTech® EnduraMet® 2205 Stainless	0.80	0.83	0.83									
CarTech® Gall-Tough® PLUS Stainless	0.73	0.75	0.74									
CarTech® Gall-Tough® Stainless	0.47	0.48	0.47									
CarTech® 15Cr-5Ni Project 70+® Stainless	0.58	0.59	0.56									
CarTech® Custom 630 Project 70+® Stainless	0.56	0.58	0.56									

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CarTech® 303 Project 70+® Escomatic Quality	0.69	0.69	0.66									
CarTech® 303 Project 70+® Stainless	0.69	0.69	0.66									
CarTech® 304/304L Project 70+® Stainless	0.74	0.73	0.71									
CarTech® 316/316L Project 70+® Stainless	1.06	1.06	1.03									
CarTech® 416 Project 70+® Stainless	0.25	0.27	0.29									
CarTech® Pyrowear® 675 Stainless	0.68	0.76	0.89									
CarTech® SCF 19® Alloy	1.51	1.52	1.49									
CarTech® 304H Stainless	0.70	0.69	0.67									
CarTech® 410 Mod Stainless	0.25	0.27	0.28									
CarTech® TrimRite® Stainless	0.34	0.37	0.38									
CarTech® 409Cb Stainless	0.25	0.26	0.27									
CarTech® 409Cb High Nickel Stainless	0.28	0.30	0.32									
CarTech® 2507 Super Duplex Stainless	0.90	0.92	0.94									
CarTech® Ni-Cu K500	4.01	3.92	3.55									
CarTech® 330 Stainless	2.02	1.98	1.81									
CarTech® 317 Stainless	1.19	1.21	1.18									

AEROSPACE AND HIGH TEMPERATURE ALLOYS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® A-286 Alloy	1.65	1.63	1.53									
CarTech® Alloy 2 (159 ALY / MP159)	7.64	7.29	7.76									
CarTech® 636 (422 SS)	0.46	0.48	0.51									
CarTech® Greek Ascoloy (418 SS)	0.68	0.69	0.70									
CarTech® L-605 Alloy	7.97	8.27	9.15									
CarTech® Waspaloy	4.72	4.70	4.71									
CarTech® 350 (Pyromet® 350)	0.71	0.73	0.75									
CarTech® 355 (Pyromet® 355)	0.70	0.72	0.74									
CarTech® 41 (Pyromet® 41)	4.89	4.90	4.91									
CarTech® 600 (Pyromet® 600)	3.27	3.12	2.77									
CarTech® 625 (Pyromet® 625)	4.37	4.28	4.11									
CarTech® 680 (Pyromet® 680)	3.67	3.63	3.52									

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Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® 706 (Pyromet® 706)	2.52	2.42	2.27									
CarTech® 718 (Pyromet® 718)	3.53	3.42	3.27									
CarTech® 720 (Pyromet® 720)	4.71	4.70	4.72									
CarTech® 80A (Pyromet® 80A)	3.51	3.35	2.99									
CarTech® 882 (Pyromet® 882)	0.36	0.39	0.40									
CarTech® 901 (Pyromet® 901)	2.73	2.68	2.52									
CarTech® CTX-1 (Pyromet® CTX-1)	3.40	3.46	3.60									
CarTech® CTX-3 (Pyromet® CTX-3)	3.46	3.51	3.68									
CarTech® CTX-909 (Pyromet® CTX-909)	3.45	3.50	3.67									
CarTech® X-750 (Pyromet® X-750)	3.22	3.08	2.74									
CarTech® Thermo-Span® Alloy	4.85	5.03	5.56									
CarTech® 286-LNi Alloy	1.24	1.24	1.18									

MAGNETIC, CONTROLLED EXPANSION AND ELECTRICAL ALLOYS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® 485 Alloy	2.48	2.42	2.20									
CarTech® 22-3 High Thermal Expansion	1.29	1.27	1.17									
CarTech® Electrical Iron	0.20	0.22	0.23									
CarTech® Glass Sealing "42-6"	2.32	2.27	2.06									
CarTech® Glass Sealing 42	2.21	2.16	1.98									
CarTech® Glass Sealing 52	2.68	2.62	2.38									
CarTech® High Permeability "49"® Alloy	2.48	2.43	2.20									
CarTech® HyMu "80"® Alloy	4.37	4.29	3.93									
CarTech® HyMu "80"® Mark II Alloy	4.37	4.29	3.93									
CarTech® HyMu "80"® Mark III Alloy	4.37	4.29	3.93									
CarTech® HyMu "800"	4.43	4.35	4.00									
CarTech® Invar 36 Alloy	1.97	1.93	1.75									
CarTech® Low Expansion "42"® Alloy	2.21	2.16	1.98									
CarTech® Low Expansion "42"® Thermostat	2.21	2.16	1.98									
CarTech® Low Expansion 43-PH	2.31	2.26	2.06									
CarTech® Nickel 200 Alloy	5.07	4.93	4.45									

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CarTech® Nickel 201 Alloy	5.00	4.86	4.38									
CarTech® Nickel 205 Alloy	5.00	4.86	4.38									
CarTech® Silicon Core Iron "A-FM"	0.15	0.17	0.18									
CarTech® Silicon Core Iron "B"	0.19	0.21	0.22									
CarTech® Silicon Core Iron "B-FM"	0.19	0.21	0.22									
CarTech® Temperature Compensator "30"® Type 2	1.60	1.57	1.43									
CarTech® Temperature Compensator "30"® Type 4	1.60	1.57	1.43									
CarTech® Temperature Compensator "32"	1.72	1.69	1.54									
CarTech® Chrome Core® 8-FM Alloy	0.26	0.28	0.28									
CarTech® Chrome Core® 12-FM Alloy	0.28	0.30	0.31									
CarTech® Chrome Core® 13-FM	0.28	0.30	0.32									
CarTech® Chrome Core® 13-XP	0.38	0.40	0.45									
CarTech® Chrome Core® 18-FM Alloy	0.42	0.44	0.47									
CarTech® Free-Cut Invar "36"® Alloy	1.97	1.93	1.75									
CarTech® High Expansion 20Ni-6Mn	1.21	1.18	1.11									
CarTech® High Expansion 72	2.18	2.12	2.19									
CarTech® Hiperco® 27 Alloy	2.95	3.16	3.66									
CarTech® Hiperco® 50 Alloy	5.32	5.70	6.65									
CarTech® Hiperco® 50 HS Alloy	5.25	5.63	6.58									
CarTech® Hiperco® 50A Alloy	5.32	5.70	6.65									
CarTech® Hy Mu 77 Alloy	4.02	3.92	3.54									
CarTech® Hy-Ra "49"® Alloy	2.48	2.43	2.20									
CarTech® Kovar® Alloy	2.01	2.10	2.28									
CarTech® MagneDur® 20-4 Alloy	1.47	1.48	1.42									
CarTech® No. 1 JR® Type 1 Alloy	0.25	0.27	0.29									
CarTech® No. 1 JR® Type 2 Alloy	0.25	0.27	0.29									
CarTech® Rotelloy 3 Alloy	5.32	5.70	6.65									
CarTech® Rotelloy 8 Alloy	5.25	5.63	6.58									
CarTech® Thermocouple Iron Type JP	0.12	0.14	0.15									
CarTech® Mumetal	4.30	4.23	3.88									
CarTech® Hypocore	0.30	0.36	0.46									

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CarTech® High Expansion 25-8	1.46	1.43	1.33									
CarTech® Low Expansion 50	2.67	2.61	2.37									
CarTech® Low Expansion 40	2.17	2.12	1.94									
CarTech® Low Expansion 45	2.34	2.29	2.07									
CarTech® High Expansion 19-7	1.16	1.15	1.06									
CarTech® High Expansion 19-2	1.15	1.14	1.07									
CarTech® Low Expansion 38-7	2.09	2.04	1.86									

MEDICAL ALLOYS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® BioDur® 108 Alloy	0.45	0.46	0.51									
CarTech® BioDur® 22Cr-13Ni-5Mn Stainless	1.10	1.10	1.08									
CarTech® BioDur® 316LS Stainless	1.19	1.20	1.16									
CarTech® BioDur® 470/Custom 470	0.86	0.86	0.83									
CarTech® BioDur® Carpenter CCM® Alloy	8.34	8.78	10.00									
CarTech® BioDur® TrimRite® Stainless	0.34	0.37	0.38									
CarTech® Micro-Melt® BioDur® Carpenter CCM® Alloy	8.34	8.78	10.00									
CarTech® Micro-Melt® BioDur® CCM Plus®	7.93	8.34	9.50									
CarTech® Micro-Melt® BioDur® CCM LS Alloy	8.34	8.78	10.00									

CORROSION-RESISTANT ALLOYS

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® Alloy C-276	4.60	4.62	4.57									
CarTech® MP35N* Alloy	8.98	8.57	9.00									
CarTech® MP35N* Alloy (Tubing)	17.96	17.15	17.99									
CarTech® Ni-Cu 400	4.15	4.06	3.68									
CarTech® Ni-Cu 405	4.15	4.06	3.68									
CarTech® Custom Age 625 PLUS® Alloy	4.23	4.13	3.96									
CarTech® 925	2.81	2.72	2.52									

*MP35N is a trademark of SPS Technologies, Inc.

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Alloy Description

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

BEARING AND GEAR STEELS

CarTech® 52100	0.26	0.27	0.27									
CarTech® 52100T2	0.26	0.27	0.27									
CarTech® Aero-A6	0.36	0.36	0.36									
CarTech® BG-42	1.46	1.40	1.43									
CarTech® CBS 223	0.74	0.73	0.73									
CarTech® CBS 600	0.48	0.48	0.49									
CarTech® CBS50Nil	1.64	1.57	1.57									
CarTech® CSS-42L	2.52	2.32	2.59									
CarTech® Dynaflex	0.63	0.62	0.62									
CarTech® L-6490	1.16	1.11	1.14									
CarTech® Lesco® 53	0.96	0.93	0.96									
CarTech® Pyrowear® Alloy 53	0.96	0.93	0.96									
CarTech® M-50	1.32	1.28	1.30									
CarTech® QC61	2.77	2.53	2.83									
CarTech® QC64	2.62	2.40	2.68									

ALLOY STEELS

Alloy Description

CarTech® 16NCD13	0.50	0.50	0.49									
CarTech® 300M	0.45	0.44	0.44									
CarTech® 3311	0.49	0.48	0.47									
CarTech® 35NCD16	0.53	0.52	0.51									
CarTech® 4130 , 4140, 4150	0.27	0.28	0.29									
CarTech® 4319, 4320, 4343	0.41	0.41	0.40									
CarTech® 4330+V, 4335+V	0.46	0.45	0.45									
CarTech® 4340 VV	0.42	0.42	0.42									
CarTech® 4340	0.40	0.40	0.40									
CarTech® 4340L	0.44	0.44	0.44									
CarTech® 4340L+	0.48	0.48	0.48									
CarTech® 6150	0.33	0.34	0.34									

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CarTech® 8620	0.31	0.31	0.32									
CarTech® 9310 V V	0.52	0.51	0.50									
CarTech® 9310, 9315	0.49	0.48	0.47									
CarTech® AerMet® 100 Alloy	2.11	2.21	2.42									
CarTech® AerMet® 310 Alloy	2.31	2.42	2.66									
CarTech® AerMet® 340 Alloy	2.45	2.57	2.82									
CarTech® AF1410	2.31	2.11	2.34									
CarTech® No. 158® Alloy	0.52	0.52	0.50									
CarTech® D6AC	0.44	0.44	0.46									
CarTech® GNB100	0.72	0.70	0.70									
CarTech® HP-9-4-20	1.36	1.27	1.33									
CarTech® HP-9-4-30	1.22	1.14	1.21									
CarTech® HTC	0.31	0.32	0.33									
CarTech® HY180	1.83	1.70	1.82									
CarTech® HYTUF	0.50	0.49	0.49									
CarTech® L-6305	0.41	0.41	0.42									
CarTech® NiMark® Alloy 250	2.08	2.15	2.24									
CarTech® NiMark+A273 Alloy 250-LR	2.08	2.15	2.24									
CarTech® NiMark® Alloy 300	2.21	2.29	2.41									
CarTech® Nitralloy 135	0.28	0.29	0.30									
CarTech® Nitralloy N	0.52	0.51	0.51									
CarTech® PremoMax® Alloy	0.50	0.50	0.49									
CarTech® PremoMet® Alloy	0.72	0.70	0.68									
CarTech® QM54	2.13	1.98	2.08									
CarTech® UT-18	0.45	0.45	0.47									
CarTech® UT-19	0.57	0.56	0.55									

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SPECIALTY ALLOYS

Alloy Description

CarTech® AEREX	16.04	15.08	15.44									
CarTech® JETHETE	1.24	1.18	1.12									
CarTech® QS53	2.00	1.85	1.99									
CarTech® XM-27	0.60	0.60	0.61									

SPECIAL PURPOSE ALLOYS

Alloy Description

CarTech® 180 Alloy	3.17	3.14	2.86									
CarTech® CBX Cupron® Alloy	3.73	3.67	3.33									
CarTech® Cupron® Alloy	3.73	3.67	3.33									
CarTech® Evanohm® Alloy R	3.91	3.81	3.45									
CarTech® Manganin 13	2.51	2.50	2.31									
CarTech® NIAL Alloy	4.88	4.74	4.29									
CarTech® NIAL Alloy / Low Resistivity NIAL	4.88	4.74	4.29									
CarTech® PCLW-SNX Alloy	2.54	2.54	2.31									
CarTech® Tophel® Alloy	4.68	4.55	4.13									
CarTech® Tophet® Alloy A	4.24	4.13	3.74									
CarTech® Tophet® Alloy C	3.23	3.15	2.87									

VALVE STEELS

Alloy Description

CarTech® 31V (Pyromet® 31V)	3.18	3.06	2.81									
CarTech® 751 (Pyromet® 751)	3.20	3.06	2.72									
CarTech® 80A (Pyromet® 80A) Valve	3.51	3.35	2.99									

HIGH SPEED STEELS (not applicable to powder products)

Alloy Description

CarTech® M1 - Tatmo	1.72	1.64	1.68									
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CarTech® M2 - Double 6	2.43	2.31	2.27									
CarTech® M2 - Double 6-XL	2.43	2.31	2.27									
CarTech® M2 - HS29	2.34	2.23	2.19									
CarTech® M2 - HS29-XL	2.34	2.23	2.19									
CarTech® M3I - Corsair	2.49	2.36	2.32									
CarTech® M3II - Crusader	2.69	2.55	2.50									
CarTech® M4 - Stark	2.81	2.67	2.59									
CarTech® M7 - Tatmo-VN	2.06	1.95	1.98									
CarTech® M11 - Vancomo	1.80	1.70	1.78									
CarTech® M33 - Kelvan	2.47	2.31	2.48									
CarTech® M35 - HS 105	2.68	2.52	2.56									
CarTech® M42 - Dynamax	2.43	2.27	2.44									
CarTech® M50 - CM-50	1.05	1.01	1.03									
CarTech® M51	3.84	3.59	3.63									
CarTech® M52 - CM52	1.96	1.87	1.84									
CarTech® T15 - Dynavan	4.13	3.89	3.77									
CarTech® Abscido	1.76	1.68	1.64									
CarTech® Supersaw	1.80	1.67	1.82									

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									
CarTech® A6 - Lesco A6	0.36	0.36	0.37									
CarTech® A7 - BR-3	1.92	1.84	1.77									
CarTech® A7 - Brickmold	1.96	1.87	1.80									
CarTech® A8 - MGR	0.71	0.69	0.69									
CarTech® A8+ - MGR-MQ	0.71	0.69	0.69									
CarTech® A9 - Mazeman	0.87	0.85	0.84									
CarTech® A10 - Graph-Air	0.52	0.51	0.51									
CarTech® A18 - Whitebear	1.19	1.14	1.12									
CarTech® D2 - Olympic	0.70	0.68	0.68									

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CarTech® D3 - GSN	0.40	0.40	0.40									
CarTech® D4 - GSN+Mo	0.57	0.56	0.56									
CarTech® D5 - Riptide	0.60	0.57	0.63									
CarTech® D7 - BR-4	1.80	1.72	1.66									
CarTech® H10 - Dart	0.59	0.58	0.60									
CarTech® H11 - Dycast	0.56	0.56	0.56									
CarTech® H11+ - Dycast-VAR	0.56	0.56	0.56									
CarTech® H12 - L.P.D.®	0.73	0.71	0.71									
CarTech® H13 - VDC®	0.75	0.73	0.73									
CarTech® H13+ - VDC-MQ	0.75	0.73	0.73									
CarTech® H13++ - VDC-RF	0.72	0.70	0.70									
CarTech® H13-FM - Viscount	0.75	0.73	0.73									
CarTech® H14 - Lumdie	0.91	0.88	0.85									
CarTech® H19 - Lesco19	1.98	1.87	1.86									
CarTech® H21 - CLW	1.79	1.71	1.63									
CarTech® H26 - H26 Mod	3.42	3.24	3.08									
CarTech® H43 - Lesco 43	1.85	1.76	1.80									
CarTech® L6 - Montana	0.99	0.96	0.92									
CarTech® O1 - Badger	0.31	0.32	0.31									
CarTech® O6 - Graph-Mo	0.27	0.27	0.28									
CarTech® O7 - Lesco O7	0.47	0.46	0.45									
CarTech® S1 - XL®-Chisel	0.64	0.63	0.60									
CarTech® S2 - Trident	0.36	0.36	0.36									
CarTech® S4 - Damascus	0.23	0.24	0.24									
CarTech® S5 - Lanark	0.46	0.46	0.46									
CarTech® S7 - Bearcat	0.41	0.41	0.42									
CarTech® S7+ - S7-MQ	0.41	0.41	0.42									
CarTech® CAT4039	0.63	0.62	0.63									
CarTech® Chipper	0.58	0.57	0.58									
CarTech® HC-H13	0.82	0.79	0.79									
CarTech® Lescowear	1.44	1.38	1.35									

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 2020 - USD/lb.
(applicable at time of shipment)



Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech® LSC2367	0.79	0.77	0.79									
CarTech® Mandrel	0.45	0.44	0.43									
CarTech® Staminol®	0.50	0.49	0.48									
CarTech® Typlex	0.66	0.64	0.62									
CarTech® 420-FM - Saxman-FM	0.44	0.44	0.44									
CarTech® 420SS - Saxman6R	0.44	0.44	0.44									

Conversion Services (Natural Gas Surcharges)

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

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