

Raw Material and Energy Powder Surcharges 2022 - USD/lb (applicable at time of shipment)



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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.

Last Modified 12/1/2022

Chrome-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® NiCr49Nb1	6.12	6.83	7.54	11.57	11.56	10.41	9.98	8.15	7.97	7.69	7.31	8.07
UltraFine® 17Cr-4Ni MA 3X	3.58	3.85	4.10	6.61	6.31	5.89	5.75	4.70	4.49	4.05	3.83	3.94
CarTech UltraFine® 316 MA	6.63	7.28	7.88	11.66	11.56	10.55	10.10	8.41	8.11	7.93	7.73	8.35
CarTech UltraFine® 420 MA	2.04	2.14	2.19	4.18	3.79	3.71	3.70	3.04	2.75	2.27	2.12	1.93

Cobalt-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® 1	17.59	18.38	19.01	23.00	23.83	23.81	20.21	14.88	12.08	12.42	12.57	12.27
CarTech Micro-Melt® 12	19.19	20.07	20.76	25.11	26.07	26.09	21.97	15.95	12.75	13.18	13.37	12.67
CarTech Micro-Melt® 188	16.32	17.21	17.99	22.01	22.85	22.35	19.33	14.61	12.48	12.85	12.85	13.34
CarTech Micro-Melt® 188B	16.32	17.21	17.99	22.01	22.85	22.35	19.33	14.61	12.48	12.85	12.85	13.34
CarTech Micro-Melt® 1B	18.71	19.56	20.23	24.42	25.34	25.32	21.43	15.72	12.73	13.12	13.28	12.90
CarTech Micro-Melt® 21	20.13	21.14	21.90	26.52	27.64	27.58	23.01	16.44	12.93	13.57	13.91	12.59
CarTech Micro-Melt® 50Nb	18.72	19.70	20.47	25.02	26.06	25.89	21.69	15.54	12.34	12.89	13.14	12.01
CarTech Micro-Melt® 6	14.81	15.53	16.10	19.73	20.49	20.47	17.19	12.35	9.81	10.11	10.24	9.50
CarTech Micro-Melt® 6LF	20.33	21.31	22.09	26.77	27.91	27.93	23.30	16.59	13.04	13.57	13.80	12.66
CarTech Micro-Melt® 9810	20.12	21.10	21.88	26.52	27.65	27.65	23.08	16.46	12.97	13.50	13.72	12.63
CarTech Micro-Melt® A4783	17.85	18.82	19.65	23.96	25.03	24.64	20.81	15.08	12.31	12.82	12.90	12.36
CarTech Micro-Melt® BioDur® CCM®	26.48	27.59	28.31	31.92	34.78	34.81	30.03	23.54	19.99	20.89	20.69	19.35
CarTech Micro-Melt® CCM	19.99	20.97	21.70	26.21	27.30	27.29	22.75	16.25	12.72	13.36	13.72	12.35
CarTech Micro-Melt® CCM GADS	19.99	20.97	21.70	26.21	27.30	27.29	22.75	16.25	12.72	13.36	13.72	12.35
CarTech Micro-Melt® CCM PLUS®	19.99	20.97	21.70	26.21	27.30	27.29	22.75	16.25	12.72	13.36	13.72	12.35
CarTech Micro-Melt® F	14.81	15.66	16.40	20.41	21.10	20.57	17.90	13.58	11.68	11.93	11.89	12.32
CarTech Micro-Melt® F75	20.86	21.88	22.64	27.31	28.47	28.46	23.70	16.90	13.22	13.89	14.26	12.83
CarTech Micro-Melt® G155	22.97	24.03	24.70	28.44	29.67	29.55	24.75	18.37	14.62	15.93	16.85	15.61
CarTech Micro-Melt® G185	19.32	20.32	21.14	25.72	26.81	26.58	22.43	16.27	13.18	13.68	13.83	13.26
CarTech Micro-Melt® G190	20.51	21.44	22.01	25.56	26.50	26.36	22.26	16.75	13.46	14.56	15.41	14.34
CarTech Micro-Melt® G195	14.90	15.94	16.86	21.28	22.20	21.44	18.35	13.42	11.35	11.75	11.70	11.49
CarTech Micro-Melt® HS31	19.27	20.26	21.08	25.65	26.73	26.51	22.36	16.23	13.14	13.65	13.79	13.23
CarTech Micro-Melt® Merl72	18.41	19.44	20.47	24.80	26.06	25.91	22.45	17.17	14.48	14.66	14.59	14.42
CarTech Micro-Melt® Mo1	18.29	19.11	19.73	23.76	24.61	24.60	20.84	15.34	12.39	12.82	13.06	12.55
CarTech Micro-Melt® P1316	19.52	20.53	21.36	25.98	27.09	26.87	22.64	16.39	13.24	13.76	13.92	13.30
CarTech Micro-Melt® P1318	19.52	20.53	21.36	25.98	27.09	26.87	22.64	16.39	13.24	13.76	13.92	13.30
CarTech Micro-Melt® P694	18.24	19.07	19.76	23.85	24.72	24.56	21.07	15.86	13.24	13.56	13.65	13.89
CarTech Micro-Melt® R31233	18.71	19.68	20.45	24.05	25.36	25.18	20.85	14.85	11.73	12.60	12.95	12.06
CarTech Micro-Melt® TDCA	14.46	15.48	16.38	20.74	21.61	20.85	17.88	13.10	11.10	11.47	11.41	11.22

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CarTech Micro-Melt® WearCorr™	18.63	19.60	20.37	24.77	25.80	25.59	21.52	15.56	12.49	13.07	13.33	12.43
CarTech UltraFine CCM®	19.99	20.97	21.70	26.21	27.30	27.29	22.75	16.25	12.72	13.36	13.72	12.35
CarTech UltraFine® CCM PLUS®	19.99	20.97	21.70	26.21	27.30	27.29	22.75	16.25	12.72	13.36	13.72	12.35
CarTech UltraFine® CoCr	21.20	22.23	23.01	27.76	28.94	28.94	24.09	17.17	13.42	14.11	14.49	13.04
CarTech UltraFine® F-75HP	20.84	21.86	22.62	27.31	28.46	28.45	23.71	16.91	13.23	13.90	14.27	12.84
CarTech UltraFine® H25	19.30	20.23	20.99	25.17	26.23	26.02	22.11	16.35	13.45	13.95	14.10	14.08
Micro-Melt® Maraging 509B	19.50	20.57	21.64	26.19	27.55	27.54	23.77	18.07	15.06	15.21	15.15	14.64
CarTech Micro-Melt® CTS	20.06	21.06	21.85	26.59	27.74	27.76	23.03	16.21	12.59	13.12	13.36	11.91
Micro-Melt Biodur CCM® LS	21.01	22.03	22.81	27.51	28.69	28.68	23.87	16.99	13.28	13.96	14.32	12.88
Micro-Melt CCM® A764 Mod	21.14	22.17	22.95	27.68	28.86	28.86	24.00	17.09	13.35	14.03	14.40	12.95
CarTech Micro-Melt® CoWCr	23.02	24.17	25.08	30.15	31.62	31.62	26.12	18.32	14.19	14.96	15.27	13.66
CarTech UltraFine® FeCo50	14.64	15.36	15.90	18.72	19.81	19.84	16.21	11.21	8.54	9.15	9.40	8.33
CarTech Micro-Melt® CCM MC	20.21	21.19	21.90	25.78	27.27	27.41	22.69	16.26	12.67	13.52	13.91	12.52

Cobalt/Nickel-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech UltraFine® MP35N®	15.29	16.33	17.19	20.94	22.07	21.31	18.34	13.88	11.91	12.64	12.81	12.78

Copper-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® C18200	4.49	4.63	4.72	4.97	4.92	4.45	4.30	3.37	3.65	3.47	3.47	3.71
CarTech Micro-Melt® CuNiSiCr	4.78	5.00	5.18	5.73	5.75	5.15	4.95	3.91	4.18	4.05	4.00	4.37
CarTech Micro-Melt® G72	5.82	6.39	6.94	8.71	9.01	7.86	7.46	5.98	6.26	6.31	6.11	7.01
CarTech UltraFine® CuNiSnP	6.74	7.00	7.32	7.76	7.71	6.70	6.11	4.89	4.94	4.58	4.42	4.80
CarTech UltraFine® C621	5.81	6.07	6.34	6.86	6.86	6.01	5.58	4.45	4.60	4.35	4.23	4.62
CarTech UltraFine® Cu15SnP	6.55	6.76	7.01	7.27	7.19	6.28	5.76	4.59	4.68	4.31	4.18	4.49
CarTech UltraFine® Cu-Electr.	4.48	4.61	4.70	4.91	4.88	4.40	4.25	3.33	3.62	3.45	3.45	3.69
CarTech UltraFine® Copper-MIM	4.50	4.64	4.73	4.94	4.90	4.43	4.28	3.35	3.64	3.46	3.46	3.71
UltraFine® C18000	4.56	4.72	4.83	5.14	5.12	4.61	4.45	3.50	3.78	3.61	3.60	3.88

Iron-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® 5506	3.53	3.83	4.07	5.96	5.89	5.41	5.18	4.32	4.11	4.00	3.93	4.16
CarTech Micro-Melt® 654SMO	3.51	3.82	4.12	5.27	5.56	5.25	4.99	4.39	4.23	4.38	4.39	4.72
CarTech Micro-Melt® 904L	3.61	3.99	4.31	5.73	6.05	5.48	5.18	4.42	4.34	4.46	4.38	4.85
CarTech Micro-Melt® BS2766	1.90	1.98	2.00	2.37	2.51	2.47	2.13	1.66	1.40	1.46	1.52	1.44
CarTech Micro-Melt® Fe LC	0.27	0.27	0.23	0.32	0.36	0.32	0.30	0.22	0.18	0.16	0.16	0.12
CarTech Micro-Melt® Fe Powder	0.30	0.30	0.25	0.35	0.38	0.34	0.31	0.23	0.19	0.17	0.17	0.13
CarTech Micro-Melt® LAW 100X	0.28	0.28	0.23	0.33	0.36	0.33	0.30	0.22	0.18	0.16	0.16	0.12
CarTech Micro-Melt® Sanico 28	3.99	4.44	4.85	6.60	7.00	6.33	6.00	5.11	5.04	5.15	5.01	5.58
CarTech Micro-Melt® 28	3.99	4.44	4.85	6.60	7.00	6.33	6.00	5.11	5.04	5.15	5.01	5.58
CarTech Micro-Melt NCORR®	3.23	3.50	3.72	5.59	5.50	5.03	4.77	3.93	3.76	3.57	3.44	3.64
CarTech Micro-Melt® FeCoTa	24.76	26.70	30.36	35.21	39.57	41.94	41.12	38.81	35.86	32.50	30.47	29.98
CarTech Micro-Melt® FeCoCrNi	10.96	11.72	12.40	15.94	16.56	15.95	13.78	10.16	8.66	8.88	8.81	8.67

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CarTech Micro-Melt® FeCoTaMo	24.97	26.61	29.14	33.54	36.76	38.16	35.65	31.64	28.25	26.81	26.01	25.22
CarTech Micro-Melt® AFA25	3.90	4.26	4.60	6.33	6.47	5.83	5.54	4.65	4.59	4.58	4.43	4.95
CarTech Micromelt® AFA25	3.90	4.26	4.60	6.33	6.47	5.83	5.54	4.65	4.59	4.58	4.43	4.95
CarTech Micro-Melt Ferrium® M4	15.26	15.81	15.74	16.03	16.13	15.65	14.31	13.46	11.97	13.81	15.73	15.87
CarTech Micro-Melt® 2507 SDplx	7.77	8.77	9.77	13.92	14.32	12.60	11.94	9.80	9.80	9.93	9.56	10.93
CarTech Micro-Melt® VeKo25Cr	2.18	2.29	2.45	3.55	3.90	3.87	3.60	3.23	3.06	2.89	2.75	2.60
CarTech Micro-Melt® 1.4313	1.20	1.28	1.31	2.08	2.04	1.89	1.81	1.47	1.38	1.26	1.21	1.22
Micro-Melt Aermet-for-tooling®	5.22	5.57	5.84	7.24	7.62	7.33	6.26	4.59	3.87	4.05	4.07	3.99
CarTech Micro-Melt® A-286	3.31	3.69	4.08	6.00	6.17	5.50	5.21	4.28	4.25	4.18	3.99	4.44

Iron/Cobalt-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt Hiperco® 50	14.54	15.26	15.86	18.85	19.97	19.96	16.35	11.39	8.79	9.34	9.53	8.48
CarTech UltraFine Hiperco® 50	14.40	15.11	15.71	18.67	19.79	19.77	16.20	11.28	8.71	9.26	9.44	8.40
Micro-Melt Hiperco® 50 HS	15.10	15.88	16.64	20.14	21.40	21.29	17.51	12.36	9.77	10.24	10.31	9.22

Iron/Nickel (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech UltraFine® GHS 4	5.09	5.67	6.23	8.31	8.75	7.79	7.31	6.15	6.11	6.34	6.21	7.02

Nickel-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech IN100	8.10	8.98	9.80	13.49	13.76	12.29	11.63	9.70	9.52	9.73	9.57	10.68
CarTech Micro-Melt® 230	9.32	10.13	10.93	14.39	14.77	13.50	12.66	10.55	10.29	10.39	10.11	11.88
CarTech Micro-Melt® 247LC	11.41	12.52	13.77	17.68	18.65	17.37	16.22	13.62	13.13	13.11	12.63	14.28
CarTech Micro-Melt® 247LC Mod 1	11.34	12.45	13.70	17.42	18.50	17.25	16.10	13.58	13.10	13.14	12.66	14.33
CarTech Micro-Melt® 282	10.29	11.29	12.22	16.17	16.74	15.33	13.95	11.13	10.50	10.84	10.71	11.61
CarTech Micro-Melt® 50/50	6.23	6.99	7.76	11.89	11.93	10.67	10.24	8.36	8.25	8.01	7.59	8.47
CarTech Micro-Melt® 600	7.22	8.25	9.31	13.33	13.85	12.04	11.39	9.26	9.40	9.55	9.09	10.60
CarTech Micro-Melt® 622	8.60	9.48	10.29	13.74	14.06	12.60	11.90	10.04	9.86	10.18	10.10	11.42
CarTech Micro-Melt® 622 AWS	8.67	9.56	10.37	13.90	14.20	12.74	12.04	10.16	9.97	10.27	10.19	11.50
CarTech Micro-Melt® 625	7.03	7.77	8.66	11.80	12.09	11.11	10.61	8.96	8.83	9.02	8.86	9.83
CarTech Micro-Melt® 625+W	8.23	9.11	9.97	13.63	14.02	12.52	11.87	9.94	9.86	10.08	9.83	11.04
CarTech Micro-Melt® 625AM	8.77	9.71	10.64	14.47	14.90	13.30	12.59	10.55	10.46	10.73	10.48	11.78
CarTech Micro-Melt® 625Ar	8.77	9.71	10.64	14.47	14.90	13.30	12.59	10.55	10.46	10.73	10.48	11.78
CarTech Micro-Melt® 625LF	8.74	9.68	10.60	14.42	14.85	13.25	12.54	10.51	10.42	10.68	10.44	11.74
CarTech Micro-Melt® 625M	8.87	9.79	10.70	14.49	14.94	13.36	12.66	10.65	10.56	10.82	10.56	11.86
CarTech Micro-Melt® 713C	7.76	8.80	9.83	13.68	14.20	12.40	11.70	9.61	9.68	9.94	9.60	11.08
CarTech Micro-Melt® 718	6.74	7.45	8.18	11.33	11.69	10.45	9.95	8.33	8.31	8.40	8.08	9.10
CarTech Micro-Melt® 80/20	7.61	8.69	9.80	14.11	14.63	12.73	12.06	9.81	9.94	10.07	9.58	11.14
CarTech Micro-Melt® 825	5.39	6.08	6.74	9.23	9.76	8.64	8.17	6.83	6.86	7.04	6.80	7.76
CarTech Micro-Melt® A4777	7.65	8.74	9.88	13.87	14.52	12.54	11.83	9.62	9.81	10.07	9.58	11.25
CarTech Micro-Melt® A4778	8.23	9.44	10.70	14.86	15.64	13.45	12.65	10.28	10.54	10.90	10.39	12.28
CarTech Micro-Melt® A4779	8.37	9.60	10.89	15.14	15.94	13.70	12.89	10.47	10.74	11.11	10.59	12.52

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CarTech Micro-Melt® A4782	7.29	8.24	9.23	13.15	13.58	11.86	11.24	9.17	9.25	9.34	8.87	10.24
CarTech Micro-Melt® B27	8.42	9.67	10.97	15.25	16.06	13.80	12.98	10.54	10.81	11.19	10.66	12.61
CarTech Micro-Melt® B40	7.72	8.83	9.98	14.07	14.70	12.72	12.00	9.75	9.94	10.18	9.70	11.37
CarTech Micro-Melt® B56	7.29	8.31	9.37	13.30	13.84	12.02	11.36	9.24	9.38	9.56	9.09	10.61
CarTech Micro-Melt® B60+	7.14	8.13	9.15	13.02	13.53	11.76	11.12	9.05	9.18	9.33	8.87	10.33
CarTech Micro-Melt® C-276	9.19	10.10	10.93	14.24	14.63	13.11	12.35	10.48	10.29	10.74	10.74	12.17
CarTech Micro-Melt® C-901	8.20	9.13	9.99	13.51	13.88	12.34	11.62	9.71	9.57	9.91	9.80	11.02
CarTech Micro-Melt® G142	7.43	8.41	9.45	13.41	13.89	12.11	11.46	9.34	9.44	9.56	9.09	10.53
CarTech Micro-Melt® G173	10.77	11.95	13.29	17.68	18.68	17.33	16.12	13.28	12.71	12.63	12.09	13.18
CarTech Micro-Melt® G183	9.86	10.84	11.79	15.62	16.27	14.82	13.56	10.90	10.45	10.71	10.46	11.72
CarTech Micro-Melt® G186	10.77	11.82	12.82	16.87	17.60	16.19	14.54	11.35	10.59	10.93	10.72	11.57
CarTech Micro-Melt® G192	6.89	7.86	8.85	12.78	13.18	11.50	10.90	8.87	8.96	9.03	8.59	9.94
CarTech Micro-Melt® G202	6.73	7.44	8.17	11.31	11.68	10.44	9.94	8.32	8.30	8.39	8.07	9.09
CarTech Micro-Melt® G207	7.65	8.75	9.89	14.14	14.71	12.76	12.07	9.81	9.97	10.16	9.67	11.29
CarTech Micro-Melt® G81	7.29	8.24	9.23	13.15	13.58	11.86	11.24	9.17	9.25	9.34	8.87	10.24
CarTech Micro-Melt® GHS-4	5.35	5.95	6.52	8.94	9.23	8.20	7.70	6.40	6.33	6.48	6.35	7.14
CarTech Micro-Melt® HX	6.65	7.37	8.02	11.01	11.25	10.05	9.51	7.94	7.80	7.98	7.86	8.80
CarTech Micro-Melt® HyMu 800	7.95	9.04	10.14	13.78	14.47	12.53	11.76	9.64	9.79	10.22	9.90	11.55
CarTech Micro-Melt® IN738	10.05	11.09	12.20	16.23	17.00	15.68	14.51	11.86	11.37	11.39	10.99	12.14
CarTech Micro-Melt® MAR-M-247	11.80	12.91	14.19	18.13	19.13	17.89	16.71	14.06	13.50	13.46	12.98	14.63
CarTech Micro-Melt® N5A	9.99	10.99	11.96	16.06	16.68	15.35	13.77	10.63	9.88	10.09	9.80	10.56
CarTech Micro-Melt® N5A/N5B	9.99	10.96	11.91	15.95	16.56	15.25	13.68	10.56	9.81	10.01	9.72	10.44
CarTech Micro-Melt® N5B	9.94	10.86	11.77	15.68	16.26	15.01	13.47	10.39	9.62	9.80	9.51	10.17
CarTech Micro-Melt® NFM 24	10.80	11.82	12.80	16.78	17.53	16.18	14.42	11.11	10.26	10.63	10.41	11.17
CarTech Micro-Melt® NiCoCrMo	11.33	12.39	13.37	17.44	18.19	16.84	15.05	11.72	10.83	11.19	11.03	11.78
CarTech Micro-Melt® NiCrMoAl	7.86	8.90	9.94	13.69	14.24	12.42	11.69	9.61	9.69	10.01	9.69	11.20
CarTech Micro-Melt® NiCrMoB	9.14	10.17	11.14	14.79	15.29	13.54	12.71	10.63	10.52	11.00	10.90	12.31
CarTech Micro-Melt® TDCA/TDCB	13.53	14.50	15.38	19.60	20.40	19.58	16.90	12.48	10.71	11.03	10.93	10.87
CarTech Micro-Melt® TDCB	11.74	12.63	13.48	17.44	18.10	17.14	15.02	11.30	9.98	10.21	10.02	10.23
CarTech UltraFine® 713C	7.74	8.78	9.81	13.64	14.16	12.37	11.66	9.59	9.66	9.91	9.57	11.05
CarTech UltraFine® 718	6.74	7.45	8.18	11.33	11.69	10.45	9.95	8.33	8.31	8.40	8.08	9.10
CarTech UltraFine® Alloy X	6.66	7.43	8.31	11.47	11.75	10.76	10.16	8.39	8.17	8.38	8.26	9.21
CarTech UltraFine® HX	7.27	8.03	8.74	11.90	12.19	10.94	10.27	8.51	8.28	8.49	8.38	9.32
CarTech UltraFine® K500	10.48	11.11	11.93	14.85	15.73	14.51	13.95	12.30	12.44	12.69	12.09	13.42
CarTech UltraFine® NiCoCrAlY	11.07	12.05	12.98	16.41	17.31	16.18	14.09	10.59	9.50	9.95	9.79	10.28
CarTech Micro-Melt® BRB	9.49	10.60	11.71	15.97	16.66	14.96	13.66	10.74	10.37	10.64	10.26	11.48
CarTech Micro-Melt® G204	7.69	8.79	9.94	13.95	14.60	12.62	11.90	9.67	9.87	10.13	9.65	11.33
CarTech Micro-Melt® Waspaloy	10.55	11.59	12.57	16.73	17.39	15.98	14.44	11.34	10.63	10.91	10.69	11.55
CarTech Micro-Melt® A914	12.35	13.59	14.81	19.21	20.25	18.54	16.46	12.59	11.74	12.27	11.96	13.04
CarTech Micro-Melt® 5 Fe	15.44	16.56	17.57	21.94	23.06	22.11	18.89	13.83	11.81	12.38	12.32	12.31
CarTech Micro-Melt® 725	8.17	9.07	9.95	13.58	14.02	12.50	11.84	9.92	9.87	10.09	9.82	11.07

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TECHNOLOGY

CarTech UltraFine® 625	8.77	9.71	10.64	14.47	14.90	13.30	12.59	10.55	10.46	10.73	10.48	11.78
CarTech UltraFine® Fe-50Ni	4.51	5.17	5.84	8.14	8.59	7.38	6.94	5.62	5.75	5.94	5.67	6.68
CarTech Micro-Melt® L1	8.69	9.57	10.43	14.07	14.46	12.97	12.31	10.39	10.30	10.52	10.27	11.66
CarTech Micro-Melt® Ni-24.5Cr	8.74	10.07	11.44	15.96	16.82	14.44	13.58	11.03	11.33	11.73	11.18	13.25
CarTech Micro-Melt® HX-1LC	7.37	8.13	8.83	11.99	12.28	11.06	10.35	8.56	8.31	8.52	8.41	9.34
CarTech Micro-Melt® R95	10.04	11.02	11.98	15.78	16.43	14.96	13.78	11.21	10.84	11.12	10.82	12.13
CarTech Micro-Melt® R125-1	11.64	12.78	14.05	18.00	19.04	17.84	16.65	14.02	13.43	13.37	12.90	14.33
CarTech Micro-Melt® C263	12.07	13.12	14.09	18.32	19.04	17.78	15.82	12.25	11.15	11.52	11.41	12.01
CarTech Micro-Melt® 718 AM	6.71	7.42	8.16	11.30	11.66	10.42	9.91	8.29	8.28	8.36	8.05	9.07
CarTech Micro-Melt® 690	6.45	7.31	8.19	12.07	12.35	10.87	10.34	8.43	8.44	8.40	7.98	9.13
CarTech Micro-Melt® 82	7.81	8.81	9.86	14.00	14.50	12.71	12.03	9.86	9.97	10.08	9.59	11.07
Micro-Melt® STAL18SILAY	10.40	11.55	12.91	17.19	18.14	16.85	16.01	13.63	13.24	12.98	12.38	13.69
CarTech Micro-Melt® 738 LC	10.16	11.22	12.34	16.39	17.18	15.81	14.68	12.06	11.61	11.65	11.23	12.44
CarTech Micro-Melt® 263	12.32	13.43	14.39	18.72	19.62	18.40	16.44	12.96	11.93	12.10	11.92	12.50
CarTech Micro-Melt® HX LC	7.27	8.03	8.74	11.90	12.19	10.94	10.27	8.51	8.28	8.49	8.38	9.32
CarTech Micro-Melt® HX-4	7.24	8.00	8.70	11.86	12.14	10.90	10.23	8.47	8.26	8.46	8.34	9.29
CarTech Micro-Melt® R77	10.84	11.91	12.91	16.98	17.71	16.29	14.64	11.44	10.68	11.02	10.82	11.67
CarTech Micro-Melt® 109 Mod	11.73	12.76	13.79	18.07	18.88	17.79	16.02	12.62	11.59	11.66	11.33	12.00
CarTech Micro-Melt® Ni60H	7.19	8.19	9.22	13.13	13.63	11.85	11.21	9.13	9.25	9.40	8.94	10.40
CarTech Micro-Melt® 625F-1	8.46	9.35	10.22	13.89	14.30	12.78	12.10	10.15	10.05	10.30	10.07	11.30
CarTech Micro-Melt® 792	11.23	12.38	13.69	17.78	18.82	17.62	16.52	13.94	13.37	13.22	12.71	13.98
CarTech Micro-Melt® NiCrAlY	6.73	7.68	8.65	12.47	12.86	11.22	10.62	8.65	8.74	8.80	8.37	9.69
CarTech Micro-Melt® 720	10.68	11.70	12.66	16.71	17.40	16.07	14.47	11.35	10.59	10.84	10.61	11.47
CarTech UltraFine® Ni20Cr	7.78	8.88	10.02	14.42	14.95	13.01	12.32	10.02	10.16	10.29	9.80	11.40
CarTech UltraFine® NiCrMo	6.04	6.67	7.25	9.96	10.19	9.16	8.58	7.05	6.85	6.98	6.86	7.58
CarTech UltraFine® 90	11.12	12.20	13.24	17.66	18.41	17.01	15.21	11.70	10.82	11.07	10.77	11.54
CarTech UltraFine® M400	7.37	8.31	9.27	12.40	12.97	11.20	10.56	8.53	8.82	9.04	8.67	10.15
CarTech UltraFine® R77	10.82	11.88	12.88	16.94	17.67	16.25	14.60	11.42	10.65	10.99	10.79	11.63
UltraFine® Maraging 247	11.55	12.65	13.87	17.75	18.71	17.45	16.26	13.63	13.09	13.09	12.63	14.27
CarTech UltraFine® HyMu 800	7.96	9.05	10.14	13.78	14.48	12.54	11.76	9.65	9.79	10.22	9.90	11.56
CarTech Micro-Melt® 75	7.32	8.39	9.47	13.27	14.04	12.23	11.56	9.51	9.69	9.94	9.47	11.06

Tool Steel (powder products)

Alloy Description

CarTech Micro-Melt Custom 470®	1.57	1.74	1.85	2.57	2.75	2.50	2.38	2.02	1.98	1.97	1.91	2.08
CarTech Micro-Melt® 100	1.89	2.01	2.08	2.68	2.86	2.81	2.70	2.44	2.30	2.31	2.30	2.39
CarTech Micro-Melt® 100Cr6	0.30	0.30	0.26	0.37	0.41	0.38	0.36	0.27	0.23	0.21	0.20	0.16
CarTech Micro-Melt® 1045	0.28	0.28	0.23	0.33	0.37	0.33	0.31	0.22	0.19	0.16	0.16	0.13
CarTech Micro-Melt® 15Cr-5Ni	1.30	1.39	1.43	2.26	2.21	2.04	1.98	1.60	1.52	1.37	1.30	1.32
CarTech Micro-Melt® 16MnCr5	0.30	0.30	0.25	0.36	0.40	0.37	0.34	0.26	0.22	0.20	0.19	0.16
CarTech Micro-Melt® 17Cr-4Ni	1.07	1.14	1.16	1.60	1.73	1.65	1.59	1.37	1.32	1.26	1.20	1.24
CarTech Micro-Melt® 20-4	1.45	1.53	1.65	2.43	2.67	2.62	2.41	2.11	2.01	1.88	1.75	1.68

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CarTech Micro-Melt®2205 Duplex	1.63	1.74	1.79	2.32	2.48	2.43	2.33	2.10	1.97	1.98	1.97	2.01
CarTech Micro-Melt®2505 SDplx	1.72	1.84	1.90	2.48	2.66	2.62	2.52	2.27	2.14	2.13	2.11	2.15
CarTech Micro-Melt® 2205M	1.66	1.76	1.82	2.36	2.53	2.49	2.39	2.16	2.02	2.03	2.02	2.05
CarTech Micro-Melt® 23	2.38	2.46	2.53	3.02	3.16	3.05	2.85	2.59	2.48	2.49	2.52	2.81
CarTech Micro-Melt® 2357	2.03	2.22	2.35	3.14	3.35	3.09	2.93	2.53	2.44	2.48	2.43	2.62
CarTech Micro-Melt® 23S	2.38	2.45	2.52	3.01	3.16	3.05	2.84	2.59	2.47	2.49	2.51	2.80
CarTech Micro-Melt® 25-10-10	3.82	3.94	3.94	4.99	4.80	4.62	4.29	2.00	1.94	1.89	3.58	3.69
CarTech Micro-Melt® 253	1.36	1.49	1.61	2.28	2.46	2.36	2.28	2.00	1.94	1.89	1.79	1.90
CarTech Micro-Melt® 254SMO	2.97	3.22	3.46	4.43	4.66	4.40	4.18	3.67	3.53	3.65	3.66	3.92
CarTech Micro-Melt® 25-7-4	2.02	2.16	2.22	2.87	3.07	2.95	2.81	2.52	2.37	2.40	2.40	2.47
CarTech Micro-Melt® 2739	4.23	4.38	4.60	5.60	5.92	5.80	5.17	4.32	3.97	3.95	3.88	4.25
CarTech Micro-Melt® 2888	4.48	4.65	4.72	5.46	5.74	5.75	4.98	3.90	3.28	3.40	3.47	3.57
CarTech Micro-Melt® 2906	1.76	1.89	1.95	2.65	2.86	2.77	2.66	2.38	2.25	2.22	2.18	2.24
CarTech Micro-Melt® 30	4.05	4.20	4.34	5.15	5.41	5.31	4.69	3.87	3.44	3.53	3.58	3.76
CarTech Micro-Melt® 304	1.30	1.43	1.55	2.19	2.37	2.26	2.19	1.90	1.85	1.80	1.72	1.83
CarTech Micro-Melt® 304B4	2.18	2.39	2.58	3.98	3.96	3.58	3.42	2.78	2.70	2.55	2.42	2.61
CarTech Micro-Melt® 304B6	2.14	2.36	2.54	3.96	3.94	3.57	3.42	2.78	2.69	2.55	2.41	2.61
CarTech Micro-Melt® 304B7	2.20	2.42	2.61	4.04	4.02	3.64	3.48	2.83	2.74	2.59	2.45	2.64
CarTech Micro-Melt® 304L	1.81	1.97	2.10	3.32	3.27	2.99	2.86	2.33	2.23	2.07	1.96	2.07
CarTech Micro-Melt® 308L Mod	1.49	1.64	1.75	2.49	2.70	2.51	2.41	2.08	2.02	1.98	1.88	2.01
CarTech Micro-Melt® 309L	2.36	2.58	2.76	4.30	4.25	3.88	3.72	3.04	2.92	2.75	2.62	2.78
CarTech Micro-Melt® 30LS	5.01	5.20	5.38	6.36	6.69	6.58	5.75	4.64	4.08	4.20	4.27	4.42
CarTech Micro-Melt® 30Nb	5.03	5.22	5.41	6.41	6.75	6.64	5.79	4.66	4.08	4.20	4.26	4.41
CarTech Micro-Melt® 312	1.58	1.73	1.83	2.64	2.88	2.75	2.65	2.34	2.25	2.18	2.06	2.17
CarTech Micro-Melt® 316L	1.68	1.82	1.94	2.58	2.75	2.61	2.50	2.18	2.10	2.12	2.08	2.21
CarTech Micro-Melt® 316L AWS	1.84	2.01	2.12	2.85	3.04	2.81	2.67	2.31	2.22	2.25	2.20	2.36
CarTech Micro-Melt® 316L+S	1.84	2.01	2.12	2.85	3.04	2.81	2.67	2.31	2.22	2.25	2.20	2.36
CarTech Micro-Melt® 316LHSi	2.49	2.70	2.86	4.17	4.16	3.81	3.63	3.02	2.88	2.79	2.73	2.90
CarTech Micro-Melt® 316LN	2.42	2.64	2.80	4.10	4.09	3.73	3.55	2.93	2.81	2.74	2.67	2.86
CarTech Micro-Melt® 316Lx1.5	2.51	2.75	2.92	3.94	4.19	3.89	3.70	3.21	3.10	3.15	3.09	3.33
CarTech Micro-Melt® 347H	1.50	1.66	1.78	2.53	2.73	2.51	2.41	2.06	2.01	1.98	1.88	2.03
CarTech Micro-Melt® 410	0.85	0.85	0.80	0.88	0.91	0.80	0.57	0.44	0.40	0.38	0.38	0.35
CarTech Micro-Melt® 410L	0.73	0.75	0.73	1.30	1.23	1.18	1.16	0.93	0.84	0.69	0.65	0.58
CarTech Micro-Melt® 4112	0.78	0.81	0.77	1.04	1.15	1.18	1.14	1.04	0.94	0.89	0.88	0.81
CarTech Micro-Melt® 4130	0.37	0.38	0.33	0.43	0.46	0.42	0.39	0.30	0.26	0.25	0.26	0.22
CarTech Micro-Melt® 4140	0.35	0.35	0.30	0.43	0.46	0.42	0.38	0.28	0.24	0.21	0.21	0.17
CarTech Micro-Melt® 416R	0.58	0.60	0.57	0.82	0.91	0.92	0.89	0.79	0.72	0.66	0.64	0.59
CarTech Micro-Melt® 420	0.77	0.79	0.77	1.38	1.30	1.25	1.23	0.99	0.89	0.74	0.69	0.62
CarTech Micro-Melt® 420 LCM	0.82	0.84	0.83	1.43	1.35	1.29	1.25	1.01	0.90	0.75	0.71	0.64
CarTech Micro-Melt® 420-CW	1.80	1.92	2.21	3.45	3.81	3.62	3.26	2.78	2.73	2.51	2.27	2.14
CarTech Micro-Melt® 420LC	0.77	0.79	0.77	1.38	1.30	1.25	1.23	0.99	0.89	0.74	0.69	0.62

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CarTech Micro-Melt® 422	1.14	1.18	1.17	1.76	1.70	1.63	1.59	1.33	1.22	1.11	1.09	1.11
CarTech Micro-Melt® 431	1.06	1.12	1.14	1.93	1.85	1.75	1.70	1.38	1.26	1.10	1.03	0.99
CarTech Micro-Melt® 4340	0.45	0.47	0.45	0.63	0.69	0.61	0.58	0.45	0.42	0.40	0.38	0.39
CarTech Micro-Melt® 4370	1.88	2.02	2.12	3.24	3.19	2.91	2.73	2.21	2.11	1.95	1.86	1.94
CarTech Micro-Melt® 440	1.46	1.55	1.74	2.73	3.03	2.92	2.67	2.31	2.24	2.05	1.87	1.75
CarTech Micro-Melt® 440C	0.99	1.03	1.01	1.76	1.65	1.59	1.56	1.28	1.15	0.98	0.93	0.85
CarTech Micro-Melt® 440-XH	1.15	1.19	1.21	2.00	1.92	1.84	1.78	1.46	1.33	1.16	1.11	1.03
CarTech Micro-Melt® 4848	3.02	3.34	3.64	5.60	5.58	5.03	4.83	3.94	3.83	3.66	3.47	3.79
CarTech Micro-Melt® 53	2.41	2.53	2.78	3.84	4.14	3.93	3.56	3.12	3.05	2.92	2.77	2.89
CarTech Micro-Melt® 5499	0.85	0.87	0.85	1.07	1.14	1.10	1.02	0.89	0.80	0.80	0.83	0.79
CarTech Micro-Melt® 60	5.26	5.49	5.77	7.07	7.47	7.29	6.39	5.26	4.74	4.82	4.83	4.96
CarTech Micro-Melt®6126Ni-free	1.83	1.89	1.87	2.61	2.50	2.37	2.16	1.81	1.64	1.52	1.54	1.46
CarTech Micro-Melt® 7339	0.42	0.43	0.38	0.49	0.53	0.49	0.46	0.37	0.32	0.30	0.31	0.27
CarTech Micro-Melt® 736A	1.71	1.82	1.89	3.10	2.98	2.79	2.69	2.20	2.06	1.84	1.75	1.75
CarTech Micro-Melt® 80	8.34	8.68	9.08	10.87	11.47	11.30	9.79	7.80	6.85	7.00	7.01	7.29
CarTech Micro-Melt® 800	2.86	3.08	3.65	6.07	6.51	6.10	5.48	4.57	4.52	4.06	3.60	3.38
CarTech Micro-Melt® 9038	1.45	1.51	1.57	2.05	2.19	2.09	1.92	1.69	1.61	1.58	1.55	1.59
CarTech Micro-Melt® 9040	2.24	2.33	2.43	3.02	3.19	3.06	2.81	2.51	2.38	2.40	2.41	2.51
CarTech Micro-Melt® 9055	4.04	4.20	4.34	5.15	5.42	5.32	4.69	3.87	3.45	3.54	3.59	3.76
CarTech Micro-Melt® 9078	2.09	2.21	2.47	3.60	3.92	3.71	3.33	2.84	2.75	2.61	2.44	2.32
CarTech Micro-Melt® 9098	1.28	1.36	1.47	2.23	2.47	2.42	2.23	1.97	1.88	1.75	1.62	1.52
CarTech Micro-Melt® 9655	2.63	2.84	2.97	3.84	4.07	3.84	3.64	3.22	3.06	3.13	3.13	3.31
CarTech Micro-Melt® 9659	3.17	3.41	3.58	5.25	5.13	4.78	4.57	3.84	3.61	3.48	3.44	3.56
CarTech Micro-Melt® 9660	3.17	3.41	3.58	5.25	5.13	4.78	4.57	3.84	3.61	3.48	3.44	3.56
CarTech Micro-Melt® A11	1.79	1.91	2.22	3.47	3.82	3.59	3.19	2.69	2.65	2.45	2.22	2.10
CarTech Micro-Melt® A11HC	2.55	2.72	3.07	4.46	4.84	4.56	4.07	3.48	3.39	3.25	3.07	2.94
CarTech Micro-Melt® A11LVC	1.74	1.86	2.16	3.36	3.69	3.47	3.09	2.61	2.57	2.38	2.16	2.04
CarTech Micro-Melt® A11-VP	1.89	2.03	2.35	3.67	4.04	3.79	3.38	2.85	2.80	2.59	2.35	2.22
CarTech Micro-Melt® Aermet®100	5.38	5.74	6.01	7.44	7.83	7.54	6.44	4.72	3.97	4.17	4.19	4.11
CarTech Micro-Melt® AISI8740	0.39	0.40	0.36	0.50	0.54	0.49	0.46	0.35	0.31	0.29	0.29	0.26
CarTech Micro-Melt® AM400Plus	1.74	1.90	2.01	2.97	2.98	2.71	2.59	2.12	2.03	1.97	1.91	2.04
CarTech Micro-Melt® APM 2370	1.79	1.91	1.96	2.56	2.74	2.65	2.53	2.27	2.13	2.14	2.13	2.18
CarTech Micro-Melt® CD#1	0.86	0.91	0.93	1.27	1.38	1.33	1.24	1.07	1.00	0.98	0.96	0.93
CarTech Micro-Melt® D2	0.87	0.91	0.91	1.28	1.40	1.39	1.28	1.09	0.99	0.93	0.90	0.83
CarTech Micro-Melt® D7	1.17	1.23	1.35	2.04	2.25	2.17	1.98	1.71	1.64	1.53	1.42	1.33
CarTech Micro-Melt® Duplex 22	1.66	1.77	1.80	2.37	2.54	2.45	2.34	2.10	1.96	1.97	1.96	2.00
CarTech Micro-Melt® F22	0.62	0.63	0.59	0.80	0.82	0.76	0.71	0.57	0.50	0.48	0.49	0.46
CarTech Micro-Melt® FeSi	0.46	0.46	0.41	0.52	0.57	0.53	0.49	0.41	0.37	0.31	0.27	0.24
CarTech Micro-Melt® FeSi 600	0.46	0.46	0.41	0.52	0.58	0.54	0.49	0.41	0.38	0.31	0.27	0.24
CarTech Micro-Melt® Grade 92	0.77	0.78	0.74	0.92	0.99	0.99	0.96	0.88	0.81	0.77	0.76	0.82
CarTech Micro-Melt® H13	0.94	0.98	1.03	1.55	1.60	1.51	1.39	1.16	1.08	1.00	0.96	0.90

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CarTech Micro-Melt® H163	2.46	2.55	2.66	3.29	3.46	3.33	3.08	2.78	2.67	2.66	2.65	2.91
CarTech Micro-Melt® HS-30	4.03	4.19	4.33	5.13	5.39	5.30	4.67	3.84	3.41	3.50	3.55	3.71
CarTech Micro-Melt® M300	5.78	6.19	6.57	7.98	8.37	7.99	7.10	5.62	5.08	5.35	5.40	5.57
CarTech Micro-Melt® M4	2.39	2.47	2.58	3.19	3.36	3.23	2.99	2.70	2.59	2.58	2.57	2.82
CarTech Micro-Melt® M4 HCS	2.67	2.76	2.87	3.58	3.70	3.54	3.29	2.94	2.81	2.78	2.78	3.06
CarTech Micro-Melt® M42	3.83	3.99	4.06	4.63	4.83	4.75	4.15	3.39	2.90	3.12	3.32	3.25
CarTech Micro-Melt® M48	4.66	4.82	4.96	5.79	6.06	5.96	5.30	4.44	3.99	4.09	4.15	4.51
CarTech Micro-Melt® M48 LS	4.68	4.84	4.99	5.82	6.09	5.99	5.33	4.47	4.02	4.12	4.18	4.54
CarTech Micro-Melt® Maxamet®	4.81	4.99	5.26	6.47	6.85	6.72	5.97	4.96	4.57	4.50	4.36	4.85
CarTech Micro-Melt® MV 11K	1.34	1.42	1.52	2.30	2.55	2.53	2.36	2.11	2.00	1.86	1.73	1.62
CarTech Micro-Melt® NOREM 02	0.72	0.78	0.81	1.05	1.11	0.99	0.93	0.76	0.73	0.75	0.75	0.81
CarTech Micro-Melt® O6	0.31	0.31	0.26	0.36	0.39	0.36	0.33	0.25	0.21	0.19	0.18	0.14
CarTech Micro-Melt® P-28	3.18	3.41	3.58	5.25	5.13	4.77	4.57	3.83	3.60	3.47	3.44	3.56
CarTech Micro-Melt® PD#1	1.09	1.14	1.19	1.63	1.77	1.71	1.57	1.38	1.31	1.25	1.21	1.21
CarTech Micro-Melt® PD#5	1.55	1.63	1.74	2.60	2.69	2.55	2.36	2.00	1.92	1.77	1.68	1.69
CarTech Micro-Melt® SA508	0.44	0.46	0.42	0.56	0.60	0.54	0.50	0.40	0.35	0.35	0.35	0.33
Micro-Melt® Sanicro 15-5PH	1.03	1.11	1.13	1.56	1.68	1.59	1.53	1.31	1.26	1.21	1.16	1.19
CarTech Micro-Melt® 15-5PH	1.03	1.11	1.13	1.56	1.68	1.59	1.53	1.31	1.26	1.21	1.16	1.19
CarTech Micro-Melt® T15	3.59	3.71	3.90	4.80	5.07	4.95	4.49	3.86	3.66	3.57	3.45	3.98
CarTech Micro-Melt® T15 Plus	4.27	4.43	4.65	5.67	5.99	5.86	5.22	4.37	4.02	4.00	3.93	4.31
CarTech Micro-Melt® TD#1	1.27	1.30	1.29	1.54	1.63	1.58	1.46	1.30	1.19	1.20	1.23	1.29
CarTech Micro-Melt® TF1	1.59	1.66	1.69	2.08	2.22	2.17	1.92	1.56	1.36	1.39	1.42	1.33
CarTech Micro-Melt® TF6	5.49	5.65	5.90	6.99	7.32	7.15	6.54	5.76	5.45	5.44	5.39	6.24
CarTech Micro-Melt® TMM	1.02	1.07	1.08	1.43	1.54	1.47	1.36	1.18	1.10	1.08	1.07	1.05
CarTech Micro-Melt® VA176	2.38	2.55	2.92	4.75	5.01	4.71	4.26	3.36	3.32	3.30	2.85	2.68
CarTech Micro-Melt® W4841Nb	2.45	2.74	2.99	4.23	4.53	4.13	3.94	3.36	3.32	3.30	3.13	3.47
CarTech Micro-Melt® X245	1.84	1.97	2.30	3.59	3.95	3.71	3.30	2.78	2.74	2.54	2.30	2.17
Micro-Melt® X4CrNiMo 16-5-1	0.90	0.97	1.01	1.45	1.58	1.53	1.48	1.29	1.24	1.19	1.13	1.17
CarTech UltraFine® 1.2709	5.36	5.76	6.09	7.52	7.91	7.43	6.51	5.02	4.48	4.75	4.81	4.98
CarTech UltraFine® 1.4435	3.17	3.43	3.63	5.33	5.24	4.84	4.62	3.85	3.65	3.54	3.48	3.66
CarTech UltraFine® 17Cr-4Ni	1.38	1.47	1.52	2.40	2.34	2.17	2.10	1.70	1.61	1.45	1.37	1.39
CarTech UltraFine® 304L	1.26	1.38	1.49	2.11	2.29	2.18	2.11	1.84	1.78	1.74	1.65	1.76
CarTech UltraFine® 316L	1.86	2.03	2.13	2.87	3.05	2.83	2.69	2.32	2.23	2.26	2.21	2.37
CarTech UltraFine® 410L	0.49	0.51	0.46	0.69	0.77	0.79	0.77	0.68	0.61	0.55	0.52	0.47
CarTech UltraFine® 430L	0.88	0.91	0.90	1.64	1.53	1.48	1.46	1.18	1.05	0.87	0.82	0.74
CarTech UltraFine® 4340	0.45	0.47	0.45	0.63	0.69	0.61	0.58	0.45	0.42	0.40	0.38	0.39
CarTech UltraFine® 4340 MA 3X	0.45	0.47	0.45	0.63	0.69	0.61	0.58	0.45	0.42	0.40	0.39	0.39
CarTech UltraFine® 440C+1.5Nb	1.11	1.13	1.12	1.85	1.76	1.73	1.71	1.43	1.31	1.13	1.06	0.98
CarTech UltraFine® D2	0.79	0.82	0.82	1.16	1.28	1.27	1.18	1.01	0.92	0.87	0.84	0.77
CarTech UltraFine® Fe14MnC	0.38	0.38	0.33	0.43	0.47	0.44	0.42	0.34	0.31	0.28	0.26	0.23
UltraFine® Fe17Cr11Mn3Mo	1.56	1.61	1.60	2.35	2.25	2.18	2.11	1.81	1.63	1.51	1.52	1.45

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CarTech UltraFine® FeCrMnMo	1.56	1.61	1.60	2.35	2.25	2.18	2.11	1.81	1.63	1.51	1.52	1.45
CarTech UltraFine® Fe-30Cr	1.34	1.39	1.41	2.64	2.42	2.36	2.34	1.91	1.73	1.42	1.33	1.21
CarTech UltraFine® Fe30Ni	2.82	3.21	3.59	5.01	5.30	4.56	4.28	3.46	3.52	3.63	3.46	4.06
CarTech UltraFine® Fe8Ni	0.95	1.06	1.12	1.58	1.68	1.45	1.36	1.08	1.07	1.08	1.04	1.17
CarTech UltraFine® FeCrAlY	0.70	0.73	0.71	1.04	1.15	1.20	1.17	1.08	0.98	0.89	0.84	0.77
CarTech UltraFine® FeSiAl	0.63	0.64	0.61	0.73	0.79	0.73	0.66	0.58	0.55	0.46	0.39	0.36
CarTech UltraFine® H13	0.75	0.78	0.77	1.05	1.14	1.10	1.01	0.87	0.80	0.77	0.76	0.71
CarTech UltraFine® M2	2.23	2.29	2.35	2.89	2.97	2.85	2.66	2.39	2.26	2.26	2.29	2.58
CarTech UltraFine® Mod FeSiAl	0.65	0.66	0.62	0.75	0.81	0.75	0.68	0.60	0.57	0.47	0.39	0.37
CarTech UltraFine® S7	0.67	0.69	0.64	0.86	0.87	0.82	0.76	0.63	0.55	0.53	0.55	0.51
CarTech UltraFine® SCM415	0.30	0.30	0.25	0.36	0.40	0.37	0.34	0.26	0.22	0.19	0.19	0.15
UltraFine® X2NiCoMo 18-9-5	5.24	5.64	5.95	7.35	7.72	7.25	6.35	4.89	4.35	4.63	4.69	4.86
CarTech UltraFine® X65Cr13	0.83	0.85	0.83	1.45	1.36	1.31	1.28	1.03	0.92	0.77	0.73	0.65
CarTech Micro-Melt® 65Fe35Co	10.33	10.83	11.20	13.20	13.97	13.99	11.44	7.91	6.03	6.45	6.63	5.87
CarTech Micro-Melt® 255N	2.31	2.46	2.55	3.91	3.77	3.54	3.43	2.85	2.66	2.49	2.44	2.47
CarTech Micro-Melt® 431 FM	1.08	1.14	1.16	1.95	1.87	1.76	1.70	1.38	1.27	1.11	1.05	1.01
CarTech Micro-Melt® 21-6-9	1.95	2.07	2.16	3.29	3.21	2.94	2.73	2.21	2.10	1.91	1.82	1.87
CarTech Micro-Melt® 9310	0.65	0.70	0.70	0.98	1.03	0.91	0.85	0.67	0.64	0.62	0.60	0.63
CarTech UltraFine® Fe-3Si	0.39	0.38	0.34	0.43	0.46	0.42	0.39	0.29	0.25	0.22	0.21	0.17
CarTech UltraFine® SKH57	5.87	6.09	6.30	7.51	7.83	7.71	6.78	5.49	4.85	4.93	4.95	5.31
CarTech UltraFine® Fe-6Si	0.52	0.51	0.46	0.54	0.57	0.52	0.49	0.38	0.33	0.30	0.28	0.23
CarTech UltraFine® F15	7.62	8.24	8.81	11.11	11.75	11.06	9.56	7.09	6.25	6.57	6.50	6.72
CarTech UltraFine® 347	1.84	2.02	2.17	3.44	3.41	3.10	2.99	2.42	2.33	2.19	2.08	2.22
CarTech UltraFine® Fe-18Cr	0.91	0.95	0.94	1.72	1.60	1.55	1.53	1.24	1.11	0.92	0.86	0.77
CarTech UltraFine® 4140	0.39	0.40	0.35	0.48	0.51	0.47	0.43	0.32	0.28	0.25	0.25	0.21
CarTech UltraFine® VeKo25Cr	2.37	2.45	2.61	3.30	3.50	3.34	3.07	2.75	2.69	2.64	2.56	2.80
CarTech UltraFine® 4140 MA	0.63	0.63	0.59	0.79	0.80	0.74	0.67	0.53	0.47	0.43	0.43	0.39
CarTech UltraFine® HK30	3.14	3.45	3.75	5.69	5.69	5.17	4.98	4.10	4.00	3.83	3.63	3.95
CarTech UltraFine® Fe-42Ni	3.85	4.41	4.96	6.92	7.31	6.28	5.91	4.78	4.88	5.04	4.81	5.66
CarTech UltraFine® 218	2.75	2.97	3.14	4.63	4.58	4.20	3.96	3.27	3.13	2.99	2.91	3.07
CarTech Micro-Melt® 7570	3.76	3.86	3.85	4.68	4.55	4.42	4.21	3.81	3.50	3.53	3.70	4.02
CarTech Micro-Melt Invar 36®	3.34	3.81	4.27	5.96	6.29	5.41	5.08	4.10	4.19	4.32	4.12	4.84
CarTech Micro-Melt® Alloy 1	1.75	1.91	2.02	2.98	2.99	2.71	2.59	2.12	2.03	1.97	1.91	2.04
CarTech Micro-Melt® EN25	0.67	0.70	0.69	0.92	0.98	0.87	0.80	0.64	0.60	0.59	0.59	0.60
CarTech Micro-Melt® PWC7	3.40	3.59	4.04	6.17	6.48	6.13	5.60	4.76	4.64	4.31	3.98	3.84
CarTech Micro-Melt® 4304-2	1.84	2.01	2.15	3.43	3.39	3.09	2.99	2.43	2.33	2.17	2.06	2.19
CarTech Micro-Melt® BSEC510	0.49	0.51	0.47	0.61	0.66	0.59	0.53	0.41	0.37	0.36	0.37	0.36
CarTech Micro-Melt® P21 Mod	0.70	0.76	0.78	1.09	1.16	1.02	0.94	0.74	0.72	0.70	0.67	0.72
CarTech Micro-Melt® 177-1	1.49	1.62	1.71	2.76	2.71	2.49	2.41	1.96	1.86	1.71	1.61	1.68
CarTech Micro-Melt® FeCoMo	7.74	8.17	8.44	9.83	10.27	9.95	8.56	6.64	5.62	6.11	6.43	6.32
CarTech Micro-Melt® 13Cr-8Ni	1.80	1.95	2.04	2.97	2.96	2.71	2.59	2.14	2.03	1.98	1.95	2.05

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CarTech Micro-Melt® FeCrWTi	1.12	1.15	1.13	1.65	1.60	1.55	1.53	1.33	1.24	1.10	1.07	1.19
CarTech Micro-Melt® 316L Mod-1	2.17	2.39	2.58	3.97	3.97	3.58	3.42	2.77	2.69	2.56	2.43	2.64
CarTech Micro-Melt® 316L Mod-2	2.16	2.38	2.57	3.96	3.96	3.57	3.41	2.77	2.69	2.56	2.43	2.63
CarTech Micro-Melt® 316L Mod-3	2.96	3.28	3.58	5.53	5.52	4.97	4.75	3.87	3.78	3.61	3.42	3.75
CarTech Micro-Melt® C300	5.25	5.65	5.96	7.36	7.74	7.27	6.37	4.92	4.38	4.65	4.71	4.88
CarTech Micro-Melt® 420-CW Mod	2.24	2.39	2.73	4.48	4.69	4.41	4.01	3.33	3.24	2.91	2.64	2.48
Micro-Melt Ferrium® PH48S	3.83	4.09	4.28	5.59	5.77	5.52	4.86	3.69	3.22	3.25	3.24	3.21
CarTech Micro-Melt® Fe-10Ni	1.19	1.32	1.42	1.98	2.10	1.82	1.70	1.35	1.35	1.37	1.31	1.48
Micro-Melt Ferrium® C64	11.39	12.58	13.73	17.97	18.90	17.23	15.41	11.92	11.22	11.71	11.43	12.55
CarTech Micro-Melt® SA508 Gr4N	0.78	0.83	0.84	1.18	1.23	1.10	1.03	0.82	0.77	0.76	0.75	0.78
CarTech UltraFine® 17Cr-4Ni Ar	1.54	1.64	1.68	2.58	2.51	2.35	2.27	1.86	1.75	1.60	1.53	1.55
CarTech Micro-Melt® HTMO	1.50	1.59	1.64	2.54	2.46	2.29	2.22	1.80	1.70	1.55	1.49	1.50
CarTech Micro-Melt® 1.2709	5.33	5.74	6.06	7.50	7.87	7.39	6.49	5.01	4.48	4.75	4.80	4.98
CarTech Micro-Melt® NitroMaxx	2.19	2.30	2.36	3.57	3.43	3.22	3.06	2.54	2.35	2.16	2.10	2.09
CarTech Micro-Melt® M152	1.29	1.36	1.39	2.08	2.05	1.92	1.83	1.51	1.39	1.31	1.29	1.27
CarTech Micro-Melt® FeCrAlTi	1.03	1.08	1.08	1.95	1.81	1.74	1.71	1.40	1.27	1.05	0.98	0.89
CarTech Micro-Melt® SHS8000	2.10	2.13	2.11	2.91	2.82	2.80	2.73	2.40	2.21	2.09	2.08	2.00
CarTech UltraFine® 13Cr-8Ni	1.81	1.96	2.05	2.99	2.98	2.73	2.61	2.16	2.05	1.99	1.96	2.06
CarTech UltraFine® 42CrMo4	0.39	0.40	0.35	0.48	0.51	0.47	0.43	0.32	0.28	0.25	0.25	0.21
UltraFine® BioDur 108 low Ni	2.21	2.26	2.25	3.12	2.97	2.76	2.37	1.93	1.78	1.58	1.55	1.47
CarTech UltraFine® 420	0.97	0.98	0.96	1.55	1.49	1.46	1.44	1.20	1.10	0.96	0.91	0.83
CarTech UltraFine BioDur® 108	2.21	2.26	2.25	3.12	2.97	2.76	2.37	1.93	1.78	1.58	1.55	1.47
CarTech UltraFine Custom 465®	1.81	1.99	2.13	3.16	3.20	2.90	2.77	2.28	2.21	2.13	2.05	2.22
CarTech UltraFine® Fe10Mn3Si	0.84	0.84	0.78	0.86	0.89	0.78	0.60	0.46	0.42	0.39	0.39	0.35
CarTech UltraFine® 440A	0.88	0.91	0.90	1.64	1.53	1.48	1.46	1.18	1.05	0.87	0.82	0.74
CarTech UltraFine® 15Cr-5Ni	1.37	1.46	1.51	2.37	2.32	2.15	2.09	1.69	1.61	1.46	1.39	1.42
CarTech UltraFine® X20Cr13	0.82	0.85	0.83	1.44	1.36	1.30	1.27	1.02	0.92	0.76	0.72	0.64
CarTech UltraFine® S5	0.52	0.52	0.47	0.57	0.60	0.55	0.50	0.40	0.35	0.34	0.35	0.31
CarTech UltraFine® FeCoSiNbBCu	10.16	10.54	10.83	12.54	13.26	13.30	11.10	8.02	6.37	6.72	6.80	6.14
CarTech UltraFine® 18Ni300	5.27	5.68	5.99	7.40	7.78	7.31	6.41	4.94	4.41	4.68	4.74	4.91
CarTech UltraFine® Fe6.5Si5Cr	0.70	0.70	0.66	0.93	0.91	0.86	0.83	0.67	0.59	0.51	0.48	0.42
CarTech UltraFine Custom 455®	1.55	1.69	1.79	2.71	2.73	2.48	2.39	1.95	1.89	1.78	1.69	1.81
CarTech UltraFine Custom 475®	4.68	4.96	5.15	6.49	6.68	6.43	5.64	4.35	3.75	3.88	3.96	3.90
CarTech UltraFine® FeSiNbCuB	1.54	1.48	1.42	1.49	1.57	1.58	1.54	1.43	1.37	1.33	1.26	1.21
UltraFine Hi Permeability 49®	4.34	4.98	5.61	7.83	8.26	7.10	6.68	5.41	5.53	5.71	5.45	6.42
CarTech UltraFine® X25CrMo14	1.01	1.04	1.03	1.67	1.59	1.53	1.48	1.22	1.09	0.95	0.93	0.85
CarTech UltraFine® A2	0.77	0.79	0.76	1.09	1.10	1.03	0.96	0.79	0.71	0.65	0.66	0.60
CarTech UltraFine® 303	1.91	2.06	2.18	3.35	3.31	3.03	2.89	2.36	2.25	2.11	2.02	2.12
CarTech UltraFine® FeCo35	10.34	10.84	11.20	13.21	13.98	13.99	11.45	7.92	6.03	6.46	6.63	5.87
CarTech UltraFine® 440C	0.88	0.91	0.90	1.64	1.53	1.48	1.46	1.18	1.05	0.87	0.82	0.74
CarTech UltraFine® 420Mod	2.06	2.20	2.54	4.29	4.50	4.23	3.84	3.17	3.10	2.75	2.45	2.29

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CarTech Micro-Melt® 9043	2.40	2.47	2.55	3.05	3.19	3.08	2.87	2.62	2.50	2.51	2.53	2.83
CarTech Micro-Melt® AF9628	0.62	0.64	0.60	0.77	0.82	0.77	0.72	4.99	4.46	4.73	0.54	0.52
MS-1(N)	5.31	5.72	6.04	7.46	7.85	7.37	6.46	4.99	4.46	4.73	4.79	4.96
CarTech Micro-Melt NiMark® 350	6.14	6.59	6.94	8.53	8.98	8.50	7.39	5.63	4.94	5.25	5.31	5.43
CarTech UltraFine® 316L Mod	2.29	2.51	2.66	3.55	3.77	3.47	3.29	2.84	2.75	2.80	2.75	2.98
CarTech Micro-Melt® 416	0.83	0.86	0.85	1.46	1.39	1.33	1.30	1.05	0.95	0.81	0.77	0.71
CarTech Micro-Melt® 30CD12	0.45	0.46	0.41	0.54	0.59	0.56	0.53	0.44	0.38	0.36	0.37	0.33
CarTech Micro-Melt® Wear 26	1.15	1.20	1.25	1.88	2.08	2.10	1.98	1.78	1.67	1.56	1.47	1.37
CarTech Micro-Melt® Wear 20	1.33	1.41	1.53	2.32	2.56	2.51	2.31	2.03	1.94	1.81	1.68	1.58

Tungsten/Nickel-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	May	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® Amega NM	11.42	12.00	12.54	14.61	14.90	13.90	13.44	12.26	12.19	12.46	12.40	15.80
CarTech Micro-Melt® NT-60	12.27	12.80	13.35	15.15	15.49	14.54	14.19	13.17	13.28	13.44	13.22	17.67
CarTech Micro-Melt® NT-60KS	11.85	12.37	12.91	14.68	15.01	14.08	13.74	12.73	12.84	12.99	12.77	17.06
CarTech Micro-Melt® NT-60SP	12.03	12.54	13.06	14.78	15.10	14.20	13.87	12.89	13.00	13.15	12.94	17.33
CarTech Micro-Melt® NT-70SP	12.58	12.94	13.31	14.52	14.75	14.11	13.88	13.18	13.26	13.36	13.21	18.01
CarTech Micro-Melt® NT-65	12.44	12.87	13.33	14.83	15.11	14.32	14.03	13.18	13.28	13.41	13.22	17.86
CarTech Micro-Melt® NT-50 SPH	11.63	12.22	12.85	14.89	15.28	14.20	13.81	12.64	12.77	12.95	12.70	16.79

Other (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	May	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt®Pyrowear 53	1.16	1.21	1.19	1.39	1.45	1.34	1.24	1.06	0.98	1.03	1.09	1.10
Micro-Melt® Glass Sealing 18	0.61	0.62	0.58	0.87	0.99	1.03	1.01	0.92	0.84	0.76	0.71	0.64
CarTech UltraFine® 1.4923	1.33	1.41	1.51	2.45	2.49	2.35	2.19	1.81	1.71	1.54	1.44	1.36
CarTech Micro-Melt® 901	4.89	5.49	6.04	8.04	8.46	7.40	6.93	5.76	5.78	6.04	5.93	6.80
CarTech Micro-Melt® 5120	0.35	0.35	0.30	0.43	0.46	0.42	0.38	0.28	0.24	0.21	0.21	0.17
CarTech UltraFine® 1.4848	2.94	3.26	3.55	5.49	5.47	4.94	4.75	3.88	3.77	3.60	3.41	3.72

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