

Raw Material and Energy Powder Surcharges 2024
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.

11/1/2024

Chrome-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® NiCr49Nb1	5.51	5.45	5.51	5.82	5.97	6.28	6.01	5.86	5.95	5.91	6.13	
UltraFine® 17Cr-4Ni MA 3X	3.14	3.11	3.12	3.22	3.29	3.39	3.47	3.46	3.52	3.53	3.63	
CarTech UltraFine® 316 MA	6.21	6.27	6.32	6.60	6.71	7.11	7.06	6.97	6.95	6.96	7.18	
CarTech UltraFine® 420 MA	1.72	1.71	1.70	1.69	1.64	1.58	1.84	1.91	2.00	2.00	2.03	

Cobalt-based (powder products)

CarTech Micro-Melt® 1	5.72	7.22	7.28	7.07	6.88	6.26	6.51	6.18	6.07	5.96	5.80	
CarTech Micro-Melt® 12	5.19	6.92	6.97	6.69	6.46	5.72	5.92	5.61	5.53	5.33	5.13	
CarTech Micro-Melt® 188	7.21	8.36	8.45	8.45	8.40	8.11	8.14	7.73	7.58	7.55	7.50	
CarTech Micro-Melt® 188B	7.21	8.36	8.45	8.45	8.40	8.11	8.14	7.73	7.58	7.55	7.50	
CarTech Micro-Melt® 1B	5.85	7.47	7.53	7.30	7.09	6.42	6.66	6.32	6.21	6.07	5.89	
CarTech Micro-Melt® 21	4.29	6.25	6.25	5.93	5.70	4.96	5.01	4.75	4.71	4.37	4.18	
CarTech Micro-Melt® 50Nb	4.17	5.94	5.95	5.68	5.49	4.82	4.80	4.54	4.53	4.21	4.05	
CarTech Micro-Melt® 6	3.33	3.93	3.95	3.73	3.56	2.98	3.08	2.85	2.81	2.62	2.47	
CarTech Micro-Melt® 6LF	4.19	6.13	6.15	5.81	5.56	4.69	4.74	4.43	4.42	4.10	3.88	
CarTech Micro-Melt® 9810	4.26	6.17	6.19	5.86	5.62	4.77	4.82	4.50	4.49	4.18	3.96	
CarTech Micro-Melt® A4783	4.76	6.27	6.32	6.17	6.07	5.54	5.37	5.03	5.01	4.74	4.62	
CarTech Micro-Melt® BioDur® CCM®	9.80	11.87	11.87	11.52	11.39	10.64	10.57	10.50	10.42	10.07	10.00	
CarTech Micro-Melt® CCM	4.19	4.13	4.13	3.91	5.58	3.28	4.93	3.27	3.22	3.01	2.89	
CarTech Micro-Melt® CCM GADS	3.46	4.13	4.13	3.91	3.74	3.28	3.43	3.27	3.22	3.01	2.89	
CarTech Micro-Melt® CCM PLUS®	3.46	4.13	4.13	3.91	3.74	3.28	3.43	3.27	3.22	3.01	2.89	
CarTech Micro-Melt® F	6.75	7.75	7.83	7.86	7.81	7.58	7.60	7.24	7.13	7.09	7.08	
CarTech Micro-Melt® F75	4.28	6.33	6.33	5.98	5.72	4.94	5.02	4.76	4.72	4.36	4.15	
CarTech Micro-Melt® G155	7.73	10.05	10.04	9.78	9.53	9.33	9.74	9.50	9.05	8.86	8.73	
CarTech Micro-Melt® G185	5.37	7.06	7.11	6.90	6.72	6.06	6.06	5.70	5.65	5.42	5.26	
CarTech Micro-Melt® G190	7.67	9.70	9.69	9.49	9.27	9.18	9.67	9.50	9.06	8.92	8.84	
CarTech Micro-Melt® G195	4.76	5.88	5.92	5.92	5.92	5.63	5.25	4.93	4.97	4.72	4.72	
CarTech Micro-Melt® HS31	5.37	7.05	7.09	6.88	6.71	6.05	6.05	5.70	5.64	5.41	5.26	
CarTech Micro-Melt® Merl72	6.84	8.27	8.46	8.50	8.39	7.91	7.84	7.37	7.31	7.15	7.04	
CarTech Micro-Melt® Mo1	5.82	7.44	7.48	7.26	7.05	6.46	6.75	6.45	6.31	6.18	6.01	
CarTech Micro-Melt® P1316	5.28	6.99	7.04	6.82	6.65	5.97	5.95	5.59	5.55	5.30	5.14	
CarTech Micro-Melt® P1318	5.28	6.99	7.04	6.82	6.65	5.97	5.95	5.59	5.55	5.30	5.14	
CarTech Micro-Melt® P694	7.48	8.89	8.98	8.85	8.69	8.19	8.51	8.11	7.90	7.90	7.77	
CarTech Micro-Melt® R31233	4.15	5.97	5.99	5.75	5.58	4.99	4.86	4.52	4.42	4.12	3.96	

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CarTech Micro-Melt® TDCA	4.70	5.78	5.81	5.82	5.83	5.56	5.18	4.87	4.92	4.67	4.68	
CarTech Micro-Melt® WearCorr™	4.84	6.56	6.57	6.35	6.17	5.59	5.61	5.33	5.27	4.99	4.86	
CarTech UltraFine CCM®	4.19	6.15	6.15	5.82	5.58	4.83	4.93	4.68	4.63	4.30	4.10	
CarTech UltraFine® CCM PLUS®	4.19	6.15	6.15	5.82	5.58	4.83	4.93	4.68	4.63	4.30	4.10	
CarTech UltraFine® CoCr	4.33	6.43	6.43	6.07	5.81	5.01	5.09	4.82	4.77	4.41	4.20	
CarTech UltraFine® F-75HP	4.30	6.36	6.36	6.01	5.75	4.97	5.06	4.80	4.75	4.40	4.19	
CarTech UltraFine® H25	6.75	8.34	8.42	8.26	8.10	7.53	7.67	7.25	7.09	6.99	6.84	
Micro-Melt® Maraging 509B	6.47	8.07	8.27	8.27	8.11	7.50	7.45	6.99	6.96	6.74	6.60	
CarTech Micro-Melt® CTS	3.25	5.23	5.23	4.86	4.61	3.69	3.66	3.39	3.43	3.05	2.82	
Micro-Melt Biodur CCM® LS	3.44	4.14	4.14	3.91	3.73	3.23	3.36	3.18	3.14	2.91	2.78	
Micro-Melt CCM® A764 Mod	4.23	6.32	6.32	5.95	5.70	4.89	4.96	4.69	4.65	4.28	4.06	
CarTech Micro-Melt® CoWCr	3.61	5.90	5.90	5.49	5.22	4.19	4.08	3.74	3.76	3.31	3.04	
CarTech UltraFine® FeCo50	1.88	3.39	3.39	3.09	2.91	2.23	2.08	1.84	1.84	1.54	1.36	
CarTech Micro-Melt® CCM MC	3.12	3.81	3.82	3.60	3.46	3.02	3.03	2.83	2.70	2.41	2.23	
Cobalt/Nickel-based (powder products)												
CarTech UltraFine® MP35N®	6.34	7.50	7.55	7.62	7.65	7.69	7.36	7.04	6.87	6.64	6.66	
Copper-based (powder products)												
CarTech Micro-Melt® C18200	4.06	4.01	3.97	4.21	4.70	5.25	4.94	4.79	4.49	4.69	4.88	
CarTech Micro-Melt® CuNiSiCr	4.29	4.24	4.21	4.49	4.96	5.53	5.15	4.99	4.71	4.88	5.09	
CarTech Micro-Melt® G72	5.43	5.33	5.35	5.75	6.21	6.83	6.20	5.93	5.76	5.84	6.12	
CarTech UltraFine® CuNiSnP	5.08	5.09	5.13	5.45	6.14	6.71	6.36	6.24	5.97	6.15	6.35	
CarTech UltraFine® C621	4.70	4.68	4.69	4.99	5.58	6.14	5.77	5.63	5.37	5.54	5.74	
CarTech UltraFine® Cu15SnP	5.00	5.00	5.03	5.33	6.02	6.61	6.28	6.16	5.87	6.06	6.27	
CarTech UltraFine® Cu-Electr.	4.05	3.99	3.95	4.20	4.69	5.25	4.92	4.78	4.47	4.67	4.87	
CarTech UltraFine® Copper-MIM	4.07	4.01	3.97	4.22	4.71	5.27	4.95	4.80	4.49	4.69	4.89	
UltraFine® C18000	4.11	4.05	4.02	4.27	4.76	5.31	4.98	4.83	4.53	4.72	4.92	
Iron-based (powder products)												
CarTech Micro-Melt® 5506	3.24	3.29	3.30	3.41	3.46	3.66	3.68	3.65	3.63	3.64	3.74	
CarTech Micro-Melt® 654SMO	3.45	3.52	3.55	3.68	3.77	4.07	3.98	3.91	3.74	3.70	3.78	
CarTech Micro-Melt® 904L	3.46	3.47	3.51	3.69	3.81	4.13	3.90	3.79	3.70	3.66	3.76	
CarTech Micro-Melt® BS2766	0.98	1.05	1.05	1.02	1.00	1.02	1.05	1.03	0.97	0.96	0.97	
CarTech Micro-Melt® Fe LC	0.24	0.22	0.21	0.19	0.19	0.19	0.16	0.16	0.17	0.17	0.18	
CarTech Micro-Melt® Fe Powder	0.24	0.23	0.22	0.19	0.19	0.19	0.17	0.17	0.17	0.17	0.18	
CarTech Micro-Melt® LAW 100X	0.24	0.22	0.21	0.19	0.19	0.19	0.16	0.17	0.17	0.17	0.18	
CarTech Micro-Melt® Sanicro 28	3.80	3.79	3.84	4.05	4.20	4.54	4.23	4.09	4.02	3.94	4.05	
CarTech Micro-Melt® 28	3.80	3.79	3.84	4.05	4.20	4.54	4.23	4.09	4.02	3.94	4.05	
CarTech Micro-Melt NCORR®	2.73	2.73	2.75	2.84	2.87	3.02	3.02	3.00	3.02	3.01	3.10	
CarTech Micro-Melt® FeCoTa	17.39	18.51	20.22	22.22	22.14	21.82	21.22	19.70	19.91	19.78	19.69	

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CarTech Micro-Melt® FeCoCrNi	3.83	4.61	4.63	4.65	4.64	4.45	4.19	3.97	4.02	3.83	3.85	
CarTech Micro-Melt® FeCoTaMo	14.26	15.95	17.00	18.13	17.98	17.76	17.58	16.55	16.45	16.30	16.21	
CarTech Micro-Melt® AFA25	3.75	3.73	3.73	3.90	4.00	4.26	4.07	3.96	3.96	3.96	4.11	
CarTech Micromelt® AFA25	3.75	3.73	3.73	3.90	4.00	4.26	4.07	3.96	3.96	3.96	4.11	
CarTech Micro-Melt Ferrium® M4	16.03	17.50	17.46	17.72	17.62	19.44	21.01	21.16	19.79	20.27	20.54	
CarTech Micro-Melt® 2507 SDplx	7.36	7.30	7.39	7.88	8.17	8.80	8.15	7.85	7.84	7.81	8.13	
CarTech Micro-Melt® VeKo25Cr	1.95	1.94	1.95	1.94	1.96	2.03	2.10	2.12	2.02	1.94	1.95	
CarTech Micro-Melt® 1.4313	1.04	1.03	1.03	1.04	1.04	1.07	1.08	1.08	1.10	1.10	1.14	
Micro-Melt Aermet-for-tooling®	1.83	2.21	2.22	2.20	2.21	2.14	1.98	1.87	1.87	1.78	1.80	
CarTech Micro-Melt® A-286	3.15	3.10	3.12	3.30	3.40	3.61	3.39	3.29	3.31	3.29	3.41	
Iron/Cobalt-based (powder products)												
CarTech Micro-Melt Hiperco® 50	2.08	3.53	3.53	3.23	3.06	2.40	2.26	2.03	2.02	1.73	1.56	
CarTech UltraFine Hiperco® 50	2.06	3.50	3.49	3.20	3.04	2.38	2.24	2.01	2.01	1.72	1.55	
Micro-Melt Hiperco® 50 HS	2.55	3.98	3.97	3.68	3.51	2.84	2.72	2.49	2.47	2.18	2.04	
Iron/Nickel (powder products)												
CarTech UltraFine® GHS 4	4.95	4.96	5.02	5.30	5.48	5.94	5.57	5.39	5.28	5.26	5.44	
Nickel-based (powder products)												
CarTech IN100	7.69	7.78	7.85	8.28	8.50	9.18	8.82	8.60	8.48	8.49	8.79	
CarTech Micro-Melt® 230	8.75	8.85	8.97	9.38	9.58	10.04	9.82	9.45	9.28	9.43	9.65	
CarTech Micro-Melt® 247LC	9.36	9.58	9.83	10.43	10.68	11.12	10.54	9.99	9.91	9.94	10.18	
CarTech Micro-Melt®247LC Mod 1	9.32	9.53	9.79	10.40	10.66	11.13	10.49	9.93	9.82	9.84	10.06	
CarTech Micro-Melt® 282	7.40	7.76	7.82	8.19	8.39	8.87	8.40	8.11	8.03	7.96	8.19	
CarTech Micro-Melt® 50/50	5.74	5.65	5.71	6.06	6.24	6.60	6.24	6.06	6.15	6.11	6.35	
CarTech Micro-Melt® 600	6.82	6.69	6.78	7.30	7.63	8.23	7.39	7.04	7.08	7.02	7.35	
CarTech Micro-Melt® 622	8.56	8.69	8.77	9.21	9.44	10.18	9.89	9.64	9.44	9.51	9.82	
CarTech Micro-Melt® 622 AWS	8.63	8.76	8.83	9.28	9.50	10.24	9.96	9.71	9.51	9.59	9.89	
CarTech Micro-Melt® 625	7.09	7.16	7.17	7.52	7.71	8.27	7.96	7.76	7.59	7.60	7.86	
CarTech Micro-Melt® 625+W	8.00	8.03	8.05	8.50	8.75	9.41	8.92	8.68	8.61	8.60	8.93	
CarTech Micro-Melt® 625AM	8.53	8.57	8.60	9.08	9.35	10.07	9.55	9.28	9.19	9.19	9.54	
CarTech Micro-Melt® 625Ar	8.53	8.57	8.60	9.08	9.35	10.07	9.55	9.28	9.19	9.19	9.54	
CarTech Micro-Melt® 625LF	8.49	8.54	8.57	9.04	9.31	10.03	9.51	9.24	9.16	9.15	9.50	
CarTech Micro-Melt® 625M	8.66	8.70	8.72	9.19	9.46	10.17	9.65	9.38	9.30	9.30	9.66	
CarTech Micro-Melt® 713C	7.43	7.38	7.47	7.99	8.32	9.00	8.25	7.91	7.88	7.85	8.19	
CarTech Micro-Melt® 718	6.57	6.53	6.52	6.89	7.11	7.60	7.11	6.90	6.91	6.88	7.16	
CarTech Micro-Melt® 80/20	7.18	7.05	7.14	7.68	8.02	8.65	7.79	7.43	7.48	7.42	7.76	
CarTech Micro-Melt® 825	5.18	5.13	5.19	5.54	5.79	6.27	5.72	5.49	5.43	5.35	5.54	
CarTech Micro-Melt® A4777	7.13	6.99	7.09	7.66	8.04	8.72	7.74	7.35	7.37	7.30	7.65	
CarTech Micro-Melt® A4778	7.71	7.55	7.67	8.31	8.74	9.50	8.37	7.92	7.94	7.85	8.24	

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CarTech Micro-Melt® A4779	7.87	7.71	7.83	8.48	8.91	9.70	8.54	8.08	8.09	8.01	8.41	
CarTech Micro-Melt® A4782	6.54	6.42	6.52	7.01	7.34	7.91	7.16	6.83	6.87	6.80	7.10	
CarTech Micro-Melt® B27	7.93	7.76	7.88	8.54	8.98	9.77	8.60	8.14	8.15	8.07	8.47	
CarTech Micro-Melt® B40	7.23	7.08	7.19	7.76	8.14	8.81	7.85	7.45	7.48	7.41	7.76	
CarTech Micro-Melt® B56	6.78	6.65	6.74	7.27	7.61	8.22	7.36	7.01	7.04	6.97	7.30	
CarTech Micro-Melt® B60+	6.61	6.48	6.57	7.08	7.41	8.00	7.18	6.84	6.88	6.81	7.13	
CarTech Micro-Melt® C-276	9.27	9.44	9.53	9.99	10.23	11.07	10.79	10.51	10.24	10.34	10.67	
CarTech Micro-Melt® C-901	7.94	8.05	8.11	8.57	8.81	9.55	9.13	8.87	8.72	8.74	9.06	
CarTech Micro-Melt® G142	6.72	6.59	6.69	7.20	7.54	8.14	7.34	7.00	7.03	6.96	7.27	
CarTech Micro-Melt® G173	7.74	7.97	8.20	8.78	9.03	9.41	8.62	8.15	8.21	8.09	8.34	
CarTech Micro-Melt® G183	7.59	7.82	7.91	8.32	8.55	9.00	8.46	8.11	8.04	8.01	8.22	
CarTech Micro-Melt® G186	6.75	7.16	7.23	7.57	7.77	8.11	7.51	7.18	7.16	7.04	7.24	
CarTech Micro-Melt® G192	6.46	6.34	6.42	6.90	7.20	7.75	7.01	6.70	6.75	6.70	7.02	
CarTech Micro-Melt® G202	6.56	6.52	6.51	6.88	7.10	7.59	7.10	6.88	6.89	6.86	7.14	
CarTech Micro-Melt® G207	7.24	7.10	7.20	7.76	8.12	8.76	7.85	7.47	7.52	7.45	7.81	
CarTech Micro-Melt® G81	6.54	6.42	6.52	7.01	7.34	7.91	7.16	6.83	6.87	6.80	7.10	
CarTech Micro-Melt® GHS-4	5.13	5.15	5.20	5.48	5.64	6.08	5.78	5.61	5.53	5.54	5.75	
CarTech Micro-Melt® HX	6.44	6.51	6.57	6.91	7.09	7.65	7.37	7.18	7.07	7.10	7.34	
CarTech Micro-Melt® HyMu 800	7.65	7.60	7.69	8.25	8.62	9.38	8.49	8.10	8.04	8.00	8.37	
CarTech Micro-Melt® IN738	7.58	7.79	7.95	8.43	8.67	9.05	8.44	8.04	8.04	7.98	8.19	
CarTech Micro-Melt® MAR-M-247	9.59	9.84	10.11	10.71	10.96	11.39	10.82	10.26	10.17	10.21	10.44	
CarTech Micro-Melt® N5A	5.81	6.16	6.23	6.52	6.72	6.94	6.33	6.01	6.06	5.93	6.13	
CarTech Micro-Melt® N5A/N5B	5.71	6.07	6.14	6.43	6.62	6.84	6.25	5.93	5.98	5.84	6.03	
CarTech Micro-Melt® N5B	5.50	5.87	5.94	6.21	6.39	6.60	6.05	5.75	5.79	5.64	5.81	
CarTech Micro-Melt® NFM 24	6.12	6.57	6.64	6.94	7.13	7.39	6.76	6.43	6.42	6.28	6.47	
CarTech Micro-Melt® NiCoCrMo	6.83	7.32	7.38	7.70	7.88	8.19	7.63	7.31	7.27	7.15	7.33	
CarTech Micro-Melt® NiCrMoAl	7.53	7.49	7.58	8.10	8.44	9.15	8.38	8.04	7.98	7.96	8.30	
CarTech Micro-Melt® NiCrMoB	8.82	8.95	9.03	9.55	9.84	10.71	10.18	9.88	9.68	9.70	10.06	
CarTech Micro-Melt® TDCA/TDCB	4.76	5.70	5.74	5.79	5.83	5.65	5.26	4.96	5.00	4.77	4.81	
CarTech Micro-Melt® TDCB	4.89	5.57	5.62	5.76	5.86	5.84	5.42	5.14	5.17	4.98	5.06	
CarTech UltraFine® 713C	7.41	7.36	7.45	7.97	8.30	8.98	8.23	7.90	7.86	7.83	8.17	
CarTech UltraFine® 718	6.57	6.53	6.52	6.89	7.11	7.60	7.11	6.90	6.91	6.88	7.16	
CarTech UltraFine® Alloy X	6.55	6.67	6.72	7.07	7.26	7.81	7.50	7.29	7.19	7.20	7.45	
CarTech UltraFine® HX	6.67	6.78	6.84	7.19	7.38	7.92	7.61	7.41	7.31	7.32	7.57	
CarTech UltraFine® K500	10.91	10.79	10.49	10.93	11.23	11.86	11.07	10.82	10.90	10.85	11.32	
CarTech UltraFine® NiCoCrAlY	4.89	5.50	5.55	5.75	5.90	5.99	5.35	5.01	5.02	4.85	4.97	
CarTech Micro-Melt® BRB	6.70	6.87	6.95	7.39	7.67	8.11	7.29	6.91	6.95	6.83	7.11	
CarTech Micro-Melt® G204	7.17	7.03	7.13	7.71	8.09	8.77	7.79	7.39	7.42	7.34	7.70	

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Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® Waspaloy	6.89	7.26	7.33	7.67	7.88	8.23	7.66	7.35	7.33	7.22	7.43	
CarTech Micro-Melt® A914	6.81	7.29	7.38	7.77	8.04	8.38	7.43	6.98	6.99	6.80	7.03	
CarTech Micro-Melt® 5 Fe	5.11	6.23	6.28	6.34	6.38	6.18	5.62	5.24	5.26	4.98	5.01	
CarTech Micro-Melt® 725	7.99	8.00	8.02	8.49	8.75	9.41	8.87	8.61	8.55	8.53	8.86	
CarTech UltraFine® 625	8.53	8.57	8.60	9.08	9.35	10.07	9.55	9.28	9.19	9.19	9.54	
CarTech UltraFine® Fe-50Ni	4.30	4.20	4.26	4.59	4.82	5.23	4.60	4.36	4.37	4.33	4.55	
CarTech Micro-Melt® L1	8.67	8.70	8.74	9.20	9.45	10.13	9.70	9.43	9.32	9.36	9.68	
CarTech Micro-Melt® Ni-24.5Cr	8.35	8.18	8.30	8.99	9.45	10.27	9.04	8.55	8.57	8.49	8.92	
CarTech Micro-Melt® HX-1LC	6.66	6.80	6.85	7.19	7.37	7.91	7.61	7.41	7.30	7.31	7.56	
CarTech Micro-Melt® R95	8.12	8.30	8.35	8.77	9.02	9.51	8.92	8.58	8.52	8.49	8.76	
CarTech Micro-Melt® R125-1	9.27	9.54	9.80	10.41	10.65	11.07	10.49	9.96	9.89	9.89	10.11	
CarTech Micro-Melt® C263	6.84	7.44	7.50	7.77	7.92	8.17	7.69	7.38	7.34	7.21	7.37	
CarTech Micro-Melt® 718 AM	6.54	6.49	6.49	6.86	7.08	7.57	7.07	6.86	6.87	6.84	7.12	
CarTech Micro-Melt® 690	6.01	5.91	5.98	6.39	6.64	7.10	6.52	6.27	6.33	6.28	6.55	
CarTech Micro-Melt® 82	7.33	7.20	7.26	7.77	8.09	8.70	7.89	7.56	7.62	7.55	7.90	
Micro-Melt® STAL18SILAY	8.72	8.83	9.11	9.78	10.04	10.51	9.81	9.31	9.34	9.30	9.57	
CarTech Micro-Melt® 738 LC	7.92	8.10	8.25	8.75	9.00	9.42	8.78	8.38	8.38	8.32	8.55	
CarTech Micro-Melt® 263	7.64	8.17	8.21	8.55	8.71	8.91	8.44	8.15	8.15	7.98	8.00	
CarTech Micro-Melt® HX LC	6.67	6.78	6.84	7.19	7.38	7.92	7.61	7.41	7.31	7.32	7.57	
CarTech Micro-Melt® HX-4	6.64	6.75	6.81	7.16	7.34	7.89	7.58	7.37	7.27	7.28	7.53	
CarTech Micro-Melt® R77	6.83	7.25	7.31	7.65	7.86	8.20	7.60	7.27	7.25	7.13	7.32	
CarTech Micro-Melt® 109 Mod	6.79	7.27	7.38	7.71	7.85	7.98	7.46	7.10	7.14	7.01	7.14	
CarTech Micro-Melt® Ni60H	6.66	6.53	6.62	7.13	7.46	8.06	7.24	6.90	6.93	6.87	7.18	
CarTech Micro-Melt® 625F-1	8.23	8.28	8.30	8.76	9.01	9.70	9.22	8.97	8.88	8.88	9.22	
CarTech Micro-Melt® 792	8.91	9.14	9.40	10.03	10.27	10.68	10.05	9.55	9.53	9.49	9.70	
CarTech Micro-Melt® NiCrAlY	6.30	6.18	6.26	6.73	7.03	7.56	6.85	6.54	6.59	6.54	6.85	
CarTech Micro-Melt® 720	6.84	7.23	7.29	7.62	7.81	8.10	7.57	7.24	7.23	7.12	7.29	
CarTech UltraFine® Ni20Cr	7.35	7.20	7.30	7.86	8.21	8.85	7.96	7.60	7.65	7.58	7.94	
CarTech UltraFine® NiCrMo	5.35	5.44	5.48	5.76	5.91	6.34	6.07	5.91	5.84	5.84	6.04	
CarTech UltraFine® 90	6.26	6.69	6.76	7.07	7.27	7.47	6.81	6.46	6.51	6.35	6.53	
CarTech UltraFine® M400	6.92	6.79	6.86	7.40	7.86	8.60	7.66	7.29	7.20	7.21	7.56	
CarTech UltraFine® R77	6.81	7.22	7.29	7.63	7.83	8.17	7.57	7.24	7.22	7.10	7.30	
UltraFine® Maraging 247	9.37	9.61	9.86	10.44	10.68	11.11	10.55	10.01	9.91	9.96	10.18	
CarTech UltraFine® HyMu 800	7.65	7.60	7.69	8.26	8.62	9.39	8.49	8.11	8.04	8.00	8.37	
CarTech Micro-Melt® 75	6.96	6.81	6.92	7.47	7.84	8.50	7.53	7.15	7.15	7.03	7.34	
Tool Steel (powder products)												
Alloy Description												
CarTech Micro-Melt Custom 470®	1.53	1.50	1.51	1.58	1.64	1.75	1.61	1.57	1.55	1.51	1.54	

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CarTech Micro-Melt® 100	1.83	1.86	1.87	1.91	1.95	2.08	2.07	2.05	1.94	1.91	1.92	
CarTech Micro-Melt® 100Cr6	0.26	0.25	0.23	0.21	0.21	0.21	0.19	0.19	0.19	0.19	0.20	
CarTech Micro-Melt® 1045	0.24	0.23	0.21	0.19	0.19	0.19	0.16	0.17	0.17	0.17	0.18	
CarTech Micro-Melt® 15Cr-5Ni	1.14	1.12	1.12	1.13	1.16	1.20	1.19	1.19	1.20	1.21	1.25	
CarTech Micro-Melt® 16MnCr5	0.25	0.24	0.23	0.20	0.20	0.20	0.18	0.18	0.19	0.18	0.19	
CarTech Micro-Melt® 17Cr-4Ni	0.95	0.93	0.93	0.95	1.00	1.06	0.98	0.96	0.94	0.90	0.91	
CarTech Micro-Melt® 20-4	1.22	1.19	1.19	1.19	1.19	1.21	1.24	1.24	1.17	1.14	1.16	
CarTech Micro-Melt®2205 Duplex	1.53	1.56	1.57	1.60	1.62	1.74	1.73	1.72	1.63	1.59	1.60	
CarTech Micro-Melt®2505 SDplx	1.61	1.64	1.65	1.68	1.72	1.84	1.82	1.81	1.72	1.67	1.67	
CarTech Micro-Melt® 2205M	1.55	1.58	1.59	1.62	1.65	1.76	1.76	1.75	1.66	1.61	1.62	
CarTech Micro-Melt® 23	1.33	1.34	1.35	1.35	1.34	1.40	1.47	1.45	1.36	1.41	1.44	
CarTech Micro-Melt® 2357	1.92	1.93	1.95	2.02	2.08	2.24	2.13	2.08	2.03	1.99	2.03	
CarTech Micro-Melt® 23S	2.62	2.67	2.68	2.71	2.70	2.83	3.02	2.97	2.78	2.88	2.92	
CarTech Micro-Melt® 25-10-10	3.54	3.72	3.72	3.75	3.70	3.93	4.31	4.33	4.18	4.27	4.32	
CarTech Micro-Melt® 253	1.26	1.23	1.24	1.28	1.33	1.41	1.30	1.27	1.24	1.18	1.19	
CarTech Micro-Melt® 254SMO	2.90	2.97	2.99	3.09	3.16	3.42	3.34	3.28	3.13	3.11	3.17	
CarTech Micro-Melt® 25-7-4	1.93	1.97	1.99	2.03	2.07	2.22	2.21	2.19	2.10	2.06	2.08	
CarTech Micro-Melt® 2739	3.25	3.31	3.34	3.35	3.32	3.34	3.54	3.43	3.22	3.32	3.34	
CarTech Micro-Melt® 2888	2.31	2.63	2.65	2.61	2.58	2.53	2.63	2.54	2.42	2.43	2.40	
CarTech Micro-Melt® 2906	1.65	1.66	1.68	1.71	1.76	1.87	1.83	1.81	1.75	1.68	1.68	
CarTech Micro-Melt® 30	2.80	2.93	2.94	2.94	2.91	2.97	3.14	3.07	2.87	2.93	2.96	
CarTech Micro-Melt® 304	1.23	1.20	1.21	1.25	1.30	1.37	1.26	1.23	1.20	1.15	1.16	
CarTech Micro-Melt® 304B4	1.90	1.87	1.88	1.95	2.00	2.09	2.01	1.97	2.01	2.00	2.07	
CarTech Micro-Melt® 304B6	1.90	1.87	1.88	1.95	2.00	2.09	2.01	1.97	2.01	2.00	2.07	
CarTech Micro-Melt® 304B7	1.92	1.89	1.90	1.98	2.02	2.11	2.03	2.00	2.04	2.03	2.10	
CarTech Micro-Melt® 304L	1.56	1.54	1.54	1.59	1.61	1.67	1.64	1.62	1.66	1.65	1.71	
CarTech Micro-Melt® 308L Mod	1.36	1.32	1.34	1.39	1.45	1.54	1.41	1.37	1.35	1.29	1.31	
CarTech Micro-Melt® 309L	2.08	2.06	2.07	2.14	2.17	2.27	2.23	2.21	2.24	2.23	2.31	
CarTech Micro-Melt® 30LS	3.25	3.56	3.58	3.55	3.52	3.55	3.73	3.65	3.47	3.53	3.54	
CarTech Micro-Melt® 30Nb	3.19	3.50	3.52	3.50	3.46	3.48	3.66	3.57	3.40	3.46	3.47	
CarTech Micro-Melt® 312	1.44	1.40	1.42	1.47	1.52	1.61	1.49	1.46	1.44	1.35	1.36	
CarTech Micro-Melt® 316L	1.60	1.60	1.61	1.66	1.71	1.83	1.75	1.72	1.65	1.62	1.64	
CarTech Micro-Melt® 316L AWS	1.74	1.74	1.76	1.82	1.87	2.01	1.91	1.87	1.82	1.79	1.82	
CarTech Micro-Melt® 316L+S	1.74	1.74	1.76	1.82	1.87	2.01	1.91	1.87	1.82	1.79	1.82	
CarTech Micro-Melt® 316LHSi	2.26	2.28	2.29	2.36	2.40	2.54	2.52	2.49	2.48	2.49	2.57	
CarTech Micro-Melt® 316LN	2.22	2.23	2.24	2.32	2.35	2.49	2.46	2.43	2.42	2.43	2.51	
CarTech Micro-Melt® 316Lx1.5	2.39	2.40	2.43	2.53	2.60	2.80	2.67	2.61	2.54	2.48	2.53	
CarTech Micro-Melt® 347H	1.38	1.34	1.35	1.41	1.47	1.56	1.42	1.38	1.36	1.31	1.34	

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CarTech Micro-Melt® 410	0.30	0.29	0.29	0.26	0.24	0.28	0.27	0.27	0.28	0.26	0.26	
CarTech Micro-Melt® 410L	0.61	0.60	0.59	0.56	0.55	0.54	0.58	0.60	0.63	0.63	0.64	
CarTech Micro-Melt® 4112	0.70	0.70	0.70	0.69	0.69	0.72	0.73	0.74	0.71	0.67	0.66	
CarTech Micro-Melt® 4130	0.33	0.33	0.31	0.29	0.29	0.30	0.29	0.29	0.29	0.29	0.30	
CarTech Micro-Melt® 4140	0.27	0.26	0.24	0.22	0.22	0.22	0.20	0.20	0.21	0.21	0.22	
CarTech Micro-Melt® 416R	0.52	0.50	0.50	0.48	0.49	0.51	0.49	0.49	0.48	0.44	0.44	
CarTech Micro-Melt® 420	0.64	0.63	0.62	0.60	0.58	0.57	0.62	0.64	0.66	0.66	0.68	
CarTech Micro-Melt® 420 LCM	0.64	0.63	0.62	0.60	0.59	0.57	0.63	0.65	0.68	0.67	0.69	
CarTech Micro-Melt® 420-CW	1.50	1.44	1.43	1.43	1.42	1.44	1.48	1.48	1.41	1.38	1.45	
CarTech Micro-Melt® 420LC	0.64	0.63	0.62	0.60	0.58	0.57	0.62	0.64	0.66	0.66	0.68	
CarTech Micro-Melt® 422	1.11	1.11	1.11	1.10	1.09	1.11	1.19	1.20	1.19	1.21	1.24	
CarTech Micro-Melt® 431	0.88	0.87	0.87	0.86	0.85	0.85	0.89	0.91	0.94	0.94	0.96	
CarTech Micro-Melt® 4340	0.40	0.38	0.37	0.36	0.37	0.38	0.34	0.33	0.33	0.33	0.35	
CarTech Micro-Melt® 4370	1.45	1.43	1.43	1.47	1.48	1.54	1.53	1.52	1.56	1.54	1.59	
CarTech Micro-Melt® 440	1.28	1.22	1.22	1.20	1.21	1.22	1.24	1.25	1.21	1.17	1.19	
CarTech Micro-Melt® 440C	0.85	0.85	0.84	0.82	0.80	0.79	0.87	0.90	0.92	0.93	0.95	
CarTech Micro-Melt® 440-XH	0.98	0.98	0.97	0.95	0.94	0.94	1.02	1.05	1.06	1.07	1.09	
CarTech Micro-Melt® 4848	2.66	2.62	2.64	2.77	2.84	2.99	2.86	2.80	2.85	2.83	2.93	
CarTech Micro-Melt® 53	2.42	2.40	2.40	2.42	2.41	2.48	2.62	2.59	2.44	2.50	2.58	
CarTech Micro-Melt® 5499	0.80	0.82	0.81	0.80	0.80	0.85	0.87	0.88	0.84	0.84	0.86	
CarTech Micro-Melt® 60	3.58	3.74	3.75	3.75	3.71	3.79	4.00	3.92	3.68	3.75	3.79	
CarTech Micro-Melt® 6126Ni-free	1.34	1.39	1.38	1.37	1.34	1.41	1.54	1.58	1.56	1.57	1.59	
CarTech Micro-Melt® 7339	0.36	0.35	0.34	0.32	0.32	0.34	0.32	0.33	0.32	0.32	0.33	
CarTech Micro-Melt® 736A	1.43	1.42	1.42	1.43	1.43	1.46	1.52	1.53	1.57	1.56	1.61	
CarTech Micro-Melt® 80	4.96	5.48	5.52	5.48	5.43	5.38	5.65	5.49	5.23	5.32	5.33	
CarTech Micro-Melt® 800	2.40	2.28	2.27	2.24	2.23	2.20	2.31	2.35	2.32	2.32	2.45	
CarTech Micro-Melt® 9038	1.42	1.44	1.44	1.44	1.43	1.50	1.57	1.56	1.47	1.50	1.53	
CarTech Micro-Melt® 9040	2.26	2.32	2.32	2.33	2.32	2.46	2.61	2.59	2.42	2.48	2.53	
CarTech Micro-Melt® 9055	2.81	2.94	2.95	2.95	2.92	2.98	3.15	3.08	2.89	2.95	2.97	
CarTech Micro-Melt® 9078	1.72	1.70	1.69	1.69	1.67	1.73	1.80	1.81	1.71	1.71	1.79	
CarTech Micro-Melt® 9098	1.10	1.07	1.07	1.07	1.07	1.09	1.11	1.12	1.06	1.02	1.04	
CarTech Micro-Melt® 9655	2.52	2.58	2.59	2.67	2.74	2.95	2.90	2.86	2.76	2.72	2.76	
CarTech Micro-Melt® 9659	2.90	2.97	2.97	3.05	3.07	3.23	3.33	3.33	3.30	3.32	3.41	
CarTech Micro-Melt® 9660	2.90	2.97	2.97	3.05	3.07	3.23	3.33	3.33	3.30	3.32	3.41	
CarTech Micro-Melt® A11	1.52	1.46	1.45	1.45	1.43	1.45	1.49	1.50	1.43	1.42	1.50	
CarTech Micro-Melt® A11HC	2.27	2.26	2.25	2.26	2.24	2.33	2.44	2.44	2.30	2.32	2.42	
CarTech Micro-Melt® A11LVC	1.48	1.43	1.42	1.42	1.40	1.42	1.46	1.46	1.39	1.39	1.47	
CarTech Micro-Melt® A11-VP	1.67	1.60	1.60	1.57	1.58	1.59	1.63	1.65	1.59	1.58	1.66	

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CarTech Micro-Melt® Aermet®100	1.89	2.29	2.29	2.28	2.28	2.21	2.06	1.94	1.93	1.85	1.86	
CarTech Micro-Melt® AISI8740	0.34	0.33	0.32	0.30	0.30	0.31	0.29	0.29	0.29	0.29	0.31	
CarTech Micro-Melt® AM400Plus	1.61	1.61	1.61	1.66	1.69	1.78	1.74	1.71	1.71	1.72	1.78	
CarTech Micro-Melt® APM 2370	1.70	1.73	1.74	1.78	1.81	1.94	1.92	1.91	1.83	1.79	1.80	
CarTech Micro-Melt® CD#1	0.78	0.78	0.77	0.77	0.77	0.81	0.81	0.81	0.77	0.76	0.77	
CarTech Micro-Melt® D2	0.67	0.67	0.67	0.65	0.65	0.66	0.66	0.66	0.64	0.61	0.61	
CarTech Micro-Melt® D7	1.00	0.98	0.97	0.96	0.96	0.98	1.00	1.01	0.95	0.93	0.96	
CarTech Micro-Melt® Duplex 22	1.56	1.58	1.59	1.62	1.65	1.77	1.75	1.74	1.68	1.63	1.64	
CarTech Micro-Melt® F22	0.52	0.53	0.52	0.50	0.50	0.52	0.52	0.53	0.52	0.52	0.54	
CarTech Micro-Melt® FeSi	0.26	0.26	0.25	0.22	0.23	0.24	0.21	0.21	0.21	0.21	0.22	
CarTech Micro-Melt® FeSi 600	0.26	0.26	0.25	0.22	0.24	0.24	0.21	0.21	0.21	0.21	0.22	
CarTech Micro-Melt® Grade 92	0.84	0.84	0.84	0.83	0.83	0.85	0.88	0.87	0.83	0.84	0.84	
CarTech Micro-Melt® H13	0.82	0.82	0.81	0.79	0.78	0.80	0.84	0.85	0.83	0.83	0.87	
CarTech Micro-Melt® H163	2.66	2.70	2.71	2.74	2.73	2.85	3.03	2.99	2.80	2.89	2.94	
CarTech Micro-Melt® HS-30	2.75	2.88	2.89	2.89	2.86	2.92	3.08	3.01	2.82	2.88	2.90	
CarTech Micro-Melt® M300	3.61	3.93	3.94	4.02	4.06	4.19	4.01	3.90	3.83	3.78	3.85	
CarTech Micro-Melt® M4	2.58	2.62	2.63	2.65	2.64	2.76	2.94	2.90	2.71	2.80	2.85	
CarTech Micro-Melt® M4 HCS	2.97	3.02	3.03	3.05	3.04	3.18	3.39	3.36	3.20	3.31	3.37	
CarTech Micro-Melt® M42	2.42	2.63	2.62	2.61	2.58	2.70	2.86	2.83	2.64	2.67	2.69	
CarTech Micro-Melt® M48	3.51	3.65	3.68	3.69	3.66	3.73	3.97	3.86	3.61	3.72	3.74	
CarTech Micro-Melt® M48 LS	3.54	3.67	3.70	3.72	3.69	3.76	4.00	3.89	3.64	3.75	3.77	
CarTech Micro-Melt® Maxamet®	3.59	3.63	3.67	3.68	3.65	3.63	3.84	3.69	3.48	3.59	3.61	
CarTech Micro-Melt® MV 11K	1.16	1.13	1.13	1.13	1.13	1.16	1.18	1.19	1.13	1.07	1.08	
CarTech Micro-Melt® NOREM 02	0.67	0.66	0.66	0.67	0.69	0.74	0.70	0.69	0.67	0.67	0.70	
CarTech Micro-Melt® O6	0.24	0.23	0.22	0.19	0.19	0.20	0.17	0.17	0.18	0.18	0.19	
CarTech Micro-Melt® P-28	2.90	2.96	2.97	3.05	3.06	3.23	3.33	3.33	3.30	3.32	3.40	
CarTech Micro-Melt® PD#1	1.05	1.04	1.04	1.03	1.03	1.07	1.11	1.10	1.04	1.04	1.07	
CarTech Micro-Melt® PD#5	1.53	1.52	1.52	1.51	1.50	1.52	1.61	1.61	1.57	1.60	1.65	
CarTech Micro-Melt® SA508	0.40	0.39	0.38	0.36	0.37	0.39	0.36	0.36	0.36	0.36	0.38	
Micro-Melt® Sanicro 15-5PH	0.93	0.90	0.91	0.92	0.97	1.03	0.95	0.93	0.91	0.88	0.89	
CarTech Micro-Melt® 15-5PH	0.93	0.90	0.91	0.92	0.97	1.03	0.95	0.93	0.91	0.88	0.89	
CarTech Micro-Melt® T15	3.27	3.27	3.31	3.33	3.32	3.34	3.53	3.41	3.21	3.34	3.37	
CarTech Micro-Melt® T15 Plus	3.30	3.36	3.39	3.40	3.37	3.39	3.59	3.48	3.27	3.37	3.40	
CarTech Micro-Melt® TD#1	1.21	1.24	1.24	1.24	1.23	1.30	1.36	1.35	1.27	1.29	1.31	
CarTech Micro-Melt® TF1	0.98	1.03	1.03	1.00	1.00	1.03	1.06	1.06	0.99	0.98	0.99	
CarTech Micro-Melt® TF6	5.33	5.41	5.47	5.53	5.51	5.64	6.03	5.86	5.49	5.71	5.76	
CarTech Micro-Melt® TMM	0.92	0.93	0.93	0.92	0.93	0.99	0.99	0.99	0.95	0.94	0.96	
CarTech Micro-Melt® VA176	2.06	1.99	1.99	1.97	1.96	1.96	2.06	2.10	2.06	2.07	2.17	

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CarTech Micro-Melt® W4841Nb	2.24	2.19	2.22	2.34	2.45	2.63	2.38	2.29	2.27	2.19	2.24	
CarTech Micro-Melt® X245	1.57	1.51	1.50	1.50	1.48	1.50	1.54	1.54	1.47	1.47	1.55	
Micro-Melt® X4CrNiMo 16-5-1	0.83	0.80	0.81	0.82	0.85	0.89	0.82	0.81	0.79	0.75	0.75	
CarTech UltraFine® 1.2709	2.97	3.29	3.30	3.37	3.42	3.55	3.37	3.24	3.17	3.13	3.19	
CarTech UltraFine® 1.4435	2.91	2.95	2.96	3.05	3.08	3.25	3.30	3.28	3.26	3.27	3.37	
CarTech UltraFine® 17Cr-4Ni	1.19	1.17	1.17	1.19	1.21	1.25	1.25	1.25	1.27	1.27	1.32	
CarTech UltraFine® 304L	1.18	1.15	1.17	1.20	1.25	1.32	1.21	1.18	1.16	1.10	1.12	
CarTech UltraFine® 316L	1.74	1.75	1.76	1.82	1.88	2.02	1.92	1.88	1.83	1.79	1.83	
CarTech UltraFine® 410L	0.42	0.41	0.40	0.38	0.39	0.39	0.37	0.38	0.37	0.34	0.33	
CarTech UltraFine® 430L	0.74	0.73	0.72	0.70	0.68	0.66	0.73	0.76	0.79	0.79	0.81	
CarTech UltraFine® 4340	0.40	0.38	0.37	0.36	0.37	0.38	0.34	0.33	0.33	0.33	0.35	
CarTech UltraFine® 4340 MA 3X	0.40	0.38	0.37	0.36	0.37	0.38	0.34	0.33	0.33	0.33	0.35	
CarTech UltraFine® 440C+1.5Nb	1.01	1.00	0.97	0.95	0.93	0.92	0.99	1.02	1.05	1.05	1.08	
CarTech UltraFine® D2	0.61	0.60	0.60	0.58	0.58	0.59	0.59	0.60	0.57	0.54	0.54	
CarTech UltraFine® Fe14MnC	0.26	0.25	0.23	0.21	0.21	0.22	0.20	0.21	0.22	0.22	0.23	
UltraFine® Fe17Cr11Mn3Mo	1.37	1.42	1.41	1.40	1.38	1.43	1.57	1.62	1.59	1.61	1.64	
CarTech UltraFine® FeCrMnMo	1.37	1.42	1.41	1.40	1.38	1.43	1.57	1.62	1.59	1.61	1.64	
CarTech UltraFine® Fe-30Cr	1.13	1.12	1.11	1.09	1.06	1.02	1.17	1.21	1.27	1.27	1.29	
CarTech UltraFine® Fe30Ni	2.67	2.61	2.64	2.83	2.96	3.21	2.83	2.68	2.69	2.66	2.80	
CarTech UltraFine® Fe8Ni	0.89	0.86	0.86	0.89	0.93	0.99	0.87	0.84	0.84	0.83	0.88	
CarTech UltraFine® FeCrAlY	0.60	0.58	0.58	0.56	0.58	0.59	0.58	0.59	0.57	0.51	0.50	
CarTech UltraFine® FeSiAl	0.30	0.31	0.30	0.28	0.31	0.31	0.28	0.28	0.28	0.28	0.30	
CarTech UltraFine® H13	0.69	0.70	0.69	0.67	0.67	0.70	0.71	0.71	0.68	0.68	0.70	
CarTech UltraFine® M2	2.46	2.51	2.53	2.55	2.54	2.66	2.86	2.82	2.64	2.75	2.79	
CarTech UltraFine® Mod FeSiAl	0.30	0.31	0.30	0.28	0.31	0.32	0.29	0.28	0.29	0.29	0.30	
CarTech UltraFine® S7	0.59	0.61	0.60	0.58	0.57	0.60	0.62	0.63	0.61	0.62	0.64	
CarTech UltraFine® SCM415	0.25	0.24	0.23	0.20	0.20	0.20	0.18	0.18	0.19	0.18	0.19	
UltraFine® X2NiCoMo 18-9-5	2.89	3.21	3.22	3.29	3.33	3.46	3.29	3.17	3.10	3.05	3.12	
CarTech UltraFine® X65Cr13	0.65	0.64	0.63	0.61	0.60	0.58	0.64	0.66	0.68	0.68	0.70	
CarTech Micro-Melt® 65Fe35Co	1.39	2.44	2.43	2.22	2.10	1.62	1.51	1.34	1.34	1.13	1.00	
CarTech Micro-Melt® 255N	2.11	2.15	2.15	2.18	2.19	2.28	2.38	2.40	2.39	2.41	2.47	
CarTech Micro-Melt® 431 FM	0.89	0.88	0.87	0.87	0.86	0.86	0.90	0.92	0.95	0.94	0.97	
CarTech Micro-Melt® 21-6-9	1.41	1.39	1.39	1.42	1.42	1.47	1.49	1.49	1.53	1.51	1.56	
CarTech Micro-Melt® 9310	0.56	0.55	0.54	0.54	0.55	0.58	0.53	0.52	0.52	0.52	0.54	
CarTech UltraFine® Fe-3Si	0.24	0.23	0.23	0.20	0.21	0.21	0.19	0.19	0.19	0.19	0.20	
CarTech UltraFine® SKH57	3.97	4.31	4.34	4.33	4.29	4.28	4.53	4.40	4.21	4.32	4.33	
CarTech UltraFine® Fe-6Si	0.25	0.25	0.24	0.22	0.23	0.24	0.23	0.23	0.22	0.21	0.21	
CarTech UltraFine® F15	3.15	3.61	3.64	3.72	3.80	3.81	3.39	3.17	3.17	3.05	3.11	

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CarTech UltraFine® 347	1.66	1.63	1.64	1.70	1.73	1.80	1.74	1.72	1.75	1.74	1.81	
CarTech UltraFine® Fe-18Cr	0.77	0.76	0.75	0.73	0.71	0.69	0.77	0.79	0.83	0.83	0.85	
CarTech UltraFine® 4140	0.31	0.30	0.29	0.26	0.26	0.27	0.25	0.26	0.26	0.26	0.27	
CarTech UltraFine® VeKo25Cr	2.63	2.63	2.64	2.65	2.65	2.75	2.90	2.87	2.74	2.83	2.89	
CarTech UltraFine® 4140 MA	0.44	0.44	0.43	0.41	0.41	0.43	0.43	0.44	0.44	0.43	0.45	
CarTech UltraFine® HK30	2.89	2.84	2.84	2.97	3.04	3.19	3.06	3.00	3.05	3.03	3.15	
CarTech UltraFine® Fe-42Ni	3.66	3.58	3.62	3.90	4.09	4.44	3.91	3.70	3.71	3.68	3.87	
CarTech UltraFine® 218	2.36	2.37	2.38	2.45	2.48	2.61	2.61	2.59	2.60	2.59	2.68	
CarTech Micro-Melt® 7570	4.02	4.19	4.21	4.25	4.22	4.46	4.86	4.84	4.63	4.78	4.83	
CarTech Micro-Melt Invar 36®	3.15	3.08	3.12	3.35	3.51	3.81	3.35	3.18	3.19	3.16	3.32	
CarTech Micro-Melt® Alloy 1	1.60	1.60	1.60	1.66	1.69	1.78	1.74	1.71	1.71	1.72	1.78	
CarTech Micro-Melt® EN25	0.57	0.56	0.56	0.55	0.56	0.60	0.56	0.55	0.54	0.54	0.57	
CarTech Micro-Melt® PWC7	3.08	3.03	2.99	2.99	2.99	3.04	3.16	3.20	3.15	3.16	3.29	
CarTech Micro-Melt® 4304-2	1.65	1.62	1.63	1.68	1.71	1.77	1.73	1.71	1.75	1.74	1.80	
CarTech Micro-Melt® BSEC510	0.41	0.40	0.39	0.37	0.37	0.40	0.37	0.37	0.36	0.36	0.38	
CarTech Micro-Melt® P21 Mod	0.61	0.59	0.58	0.59	0.61	0.64	0.57	0.55	0.56	0.55	0.58	
CarTech Micro-Melt® 177-1	1.32	1.30	1.30	1.33	1.35	1.39	1.37	1.36	1.40	1.39	1.44	
CarTech Micro-Melt® FeCoMo	3.98	4.64	4.64	4.64	4.62	4.78	4.84	4.74	4.54	4.51	4.54	
CarTech Micro-Melt® 13Cr-8Ni	1.68	1.69	1.69	1.73	1.76	1.86	1.85	1.83	1.82	1.83	1.89	
CarTech Micro-Melt® FeCrWTi	1.28	1.26	1.26	1.26	1.25	1.25	1.35	1.34	1.32	1.37	1.38	
CarTech Micro-Melt® 316L Mod-1	1.91	1.88	1.89	1.97	2.02	2.11	2.02	1.98	2.02	2.00	2.08	
CarTech Micro-Melt® 316L Mod-2	1.91	1.88	1.89	1.97	2.01	2.11	2.02	1.98	2.01	2.00	2.08	
CarTech Micro-Melt® 316L Mod-3	2.65	2.61	2.62	2.75	2.82	2.96	2.83	2.77	2.82	2.80	2.91	
CarTech Micro-Melt® C300	2.92	3.23	3.25	3.32	3.36	3.49	3.32	3.20	3.13	3.08	3.15	
CarTech Micro-Melt® 420-CW Mod	1.91	1.85	1.85	1.83	1.81	1.81	1.92	1.95	1.93	1.93	2.02	
Micro-Melt Ferrium® PH48S	1.85	2.07	2.07	2.08	2.08	2.07	2.02	1.96	1.96	1.91	1.94	
CarTech Micro-Melt® Fe-10Ni	1.07	1.04	1.04	1.09	1.14	1.22	1.08	1.03	1.03	1.02	1.08	
Micro-Melt Ferrium® C64	6.97	7.37	7.45	7.85	8.11	8.51	7.65	7.23	7.22	7.07	7.32	
CarTech Micro-Melt® SA508 Gr4N	0.69	0.68	0.67	0.68	0.69	0.73	0.68	0.67	0.67	0.66	0.69	
CarTech UltraFine® 17Cr-4Ni Ar	1.35	1.35	1.34	1.36	1.38	1.43	1.45	1.45	1.46	1.46	1.51	
CarTech Micro-Melt® HTMO	1.30	1.29	1.28	1.30	1.33	1.37	1.39	1.39	1.40	1.41	1.46	
CarTech Micro-Melt® 1.2709	2.99	3.31	3.32	3.40	3.44	3.58	3.40	3.28	3.21	3.16	3.23	
CarTech Micro-Melt® NitroMaxx	1.71	1.74	1.74	1.76	1.75	1.82	1.93	1.95	1.96	1.95	1.99	
CarTech Micro-Melt® M152	1.15	1.17	1.16	1.16	1.16	1.20	1.25	1.26	1.25	1.26	1.30	
CarTech Micro-Melt® FeCrAlTi	0.87	0.86	0.85	0.84	0.83	0.80	0.89	0.92	0.95	0.96	0.98	
CarTech Micro-Melt® SHS8000	2.06	2.11	2.05	2.04	2.02	2.08	2.22	2.27	2.26	2.28	2.33	
CarTech UltraFine® 13Cr-8Ni	1.68	1.70	1.70	1.74	1.77	1.87	1.86	1.84	1.83	1.84	1.90	
CarTech UltraFine® 42CrMo4	0.31	0.30	0.29	0.26	0.26	0.27	0.25	0.26	0.26	0.26	0.27	

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UltraFine® BioDur 108 low Ni	1.16	1.17	1.17	1.16	1.10	1.16	1.30	1.34	1.36	1.34	1.35	
CarTech UltraFine® 420	0.89	0.88	0.85	0.83	0.82	0.81	0.85	0.88	0.91	0.91	0.93	
CarTech UltraFine BioDur® 108	1.16	1.17	1.17	1.16	1.10	1.16	1.30	1.34	1.36	1.34	1.35	
CarTech UltraFine Custom 465®	1.73	1.71	1.71	1.78	1.82	1.91	1.84	1.81	1.82	1.81	1.87	
CarTech UltraFine® Fe10Mn3Si	0.30	0.29	0.28	0.26	0.25	0.29	0.28	0.28	0.28	0.26	0.26	
CarTech UltraFine® 440A	0.74	0.73	0.72	0.70	0.68	0.66	0.73	0.76	0.79	0.79	0.81	
CarTech UltraFine® 15Cr-5Ni	1.23	1.21	1.20	1.22	1.24	1.28	1.27	1.27	1.29	1.29	1.34	
CarTech UltraFine® X20Cr13	0.65	0.64	0.63	0.61	0.59	0.58	0.63	0.66	0.68	0.68	0.70	
CarTech UltraFine® S5	0.39	0.39	0.38	0.36	0.36	0.38	0.38	0.38	0.37	0.37	0.38	
CarTech UltraFine® FeCoSiNbBCu	2.28	3.19	3.13	2.95	2.86	2.50	2.40	2.27	2.27	2.08	1.99	
CarTech UltraFine® 18Ni300	2.94	3.26	3.27	3.35	3.39	3.52	3.35	3.23	3.15	3.11	3.18	
CarTech UltraFine® Fe6.5Si5Cr	0.40	0.39	0.39	0.37	0.38	0.38	0.40	0.40	0.41	0.40	0.40	
CarTech UltraFine Custom 455®	1.45	1.42	1.41	1.46	1.50	1.57	1.50	1.48	1.50	1.49	1.54	
CarTech UltraFine Custom 475®	2.42	2.74	2.74	2.75	2.74	2.78	2.80	2.74	2.68	2.65	2.69	
CarTech UltraFine® FeSiNbCuB	1.31	1.31	1.23	1.22	1.24	1.28	1.27	1.28	1.28	1.27	1.31	
UltraFine Hi Permeability 49®	4.13	4.04	4.09	4.41	4.63	5.03	4.42	4.19	4.20	4.16	4.37	
CarTech UltraFine® X25CrMo14	0.86	0.87	0.86	0.84	0.82	0.83	0.91	0.93	0.94	0.94	0.97	
CarTech UltraFine® A2	0.65	0.65	0.64	0.62	0.61	0.64	0.67	0.68	0.67	0.67	0.69	
CarTech UltraFine® 303	1.62	1.61	1.61	1.66	1.68	1.75	1.74	1.72	1.75	1.74	1.80	
CarTech UltraFine® FeCo35	1.39	2.44	2.43	2.22	2.10	1.62	1.51	1.34	1.34	1.13	1.00	
CarTech UltraFine® 440C	0.74	0.73	0.72	0.70	0.68	0.66	0.73	0.76	0.79	0.79	0.81	
CarTech UltraFine® 420Mod	1.72	1.65	1.64	1.62	1.60	1.58	1.66	1.70	1.69	1.69	1.77	
CarTech Micro-Melt® 9043	2.64	2.69	2.70	2.73	2.72	2.85	3.04	2.99	2.80	2.89	2.94	
CarTech Micro-Melt® AF9628	0.54	0.54	0.53	0.52	0.52	0.56	0.54	0.54	0.52	0.52	0.53	
MS-1(N)	2.97	3.29	3.30	3.38	3.43	3.56	3.38	3.26	3.19	3.14	3.21	
CarTech Micro-Melt NiMark® 350	3.06	3.46	3.47	3.53	3.57	3.66	3.47	3.33	3.27	3.20	3.25	
CarTech UltraFine® 316L Mod	2.17	2.18	2.20	2.29	2.36	2.54	2.42	2.37	2.30	2.26	2.32	
CarTech Micro-Melt® 416	0.71	0.70	0.69	0.67	0.66	0.66	0.70	0.72	0.74	0.74	0.77	
CarTech Micro-Melt® 30CD12	0.40	0.40	0.38	0.36	0.36	0.38	0.37	0.37	0.36	0.36	0.37	
CarTech Micro-Melt® Wear 26	0.99	0.97	0.97	0.96	0.97	1.00	1.02	1.02	0.96	0.91	0.90	
CarTech Micro-Melt® Wear 20	1.14	1.12	1.12	1.11	1.11	1.14	1.17	1.17	1.10	1.06	1.08	
Tungsten/Nickel-based (powder products)												
CarTech Micro-Melt® Amega NM	14.30	14.37	14.60	15.11	15.28	16.03	16.54	15.97	15.31	15.94	16.14	
CarTech Micro-Melt® NT-60	16.37	16.30	16.61	17.19	17.37	18.08	18.71	17.95	17.20	18.03	18.20	
CarTech Micro-Melt® NT-60KS	15.75	15.69	15.99	16.54	16.73	17.41	18.00	17.27	16.55	17.34	17.51	
CarTech Micro-Melt® NT-60SP	16.11	16.04	16.35	16.91	17.08	17.77	18.41	17.67	16.92	17.75	17.91	
CarTech Micro-Melt® NT-70SP	17.45	17.40	17.74	18.27	18.40	19.06	20.03	19.25	18.36	19.35	19.46	
CarTech Micro-Melt® NT-65	16.94	16.89	17.21	17.77	17.92	18.60	19.41	18.64	17.82	18.73	18.87	

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CarTech Micro-Melt® NT-50 SPH	15.12	15.05	15.33	15.90	16.11	16.82	17.24	16.53	15.87	16.58	16.77	
Other (powder products)												
CarTech Micro-Melt®Pyrowear 53	1.09	1.14	1.12	1.13	1.15	1.25	1.26	1.25	1.19	1.21	1.24	
Micro-Melt® Glass Sealing 18	0.53	0.51	0.51	0.49	0.50	0.50	0.49	0.50	0.48	0.44	0.41	
CarTech UltraFine® 1.4923	1.17	1.15	1.14	1.13	1.12	1.12	1.19	1.21	1.21	1.21	1.26	
CarTech Micro-Melt® 901	4.83	4.83	4.88	5.18	5.38	5.84	5.42	5.22	5.14	5.13	5.32	
CarTech Micro-Melt® 5120	0.27	0.25	0.24	0.22	0.22	0.22	0.20	0.20	0.20	0.20	0.22	
CarTech UltraFine® 1.4848	2.63	2.58	2.61	2.73	2.80	2.94	2.82	2.76	2.80	2.79	2.89	

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