

Raw Material and Energy Powder Surcharges 2019 - USD/II

(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.

Chrome-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® NiCr49Nb1	3.41											
UltraFine® 17Cr-4Ni MA 3X	2.46											
CarTech UltraFine® 316 MA	3.85											
CarTech UltraFine® 420 MA	1.82											
CarTech Micro-Melt®1	14.33											

Cobalt-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® 1	14.33											
CarTech Micro-Melt® 12	15.34											
CarTech Micro-Melt® 188	12.74											
CarTech Micro-Melt® 188B	12.74											
CarTech Micro-Melt® 1B	15.18											
CarTech Micro-Melt® 21	15.25											
CarTech Micro-Melt® 50Nb	14.07											
CarTech Micro-Melt® 6	11.61											
CarTech Micro-Melt® 6LF	15.90											
CarTech Micro-Melt® 9810	15.73											
CarTech Micro-Melt® A4783	13.17											
CarTech Micro-Melt®BioDur®CCM®	21.71											
CarTech Micro-Melt® CCM	15.19											
CarTech Micro-Melt CCM® GADS	15.19											
CarTech Micro-Melt® CCM PLUS®	15.19											
CarTech Micro-Melt® F	11.47											
CarTech Micro-Melt® F75	15.84											
CarTech Micro-Melt® G155	16.64											
CarTech Micro-Melt® G185	15.00											
CarTech Micro-Melt® G190	14.79											
CarTech Micro-Melt® G195	10.38											
CarTech Micro-Melt® HS31	14.95											
CarTech Micro-Melt® MerI72	14.93											
CarTech Micro-Melt® Mo1	14.63											
CarTech Micro-Melt® P1316	15.11											
CarTech Micro-Melt® P1318	15.11											
CarTech Micro-Melt® P694	15.51											
CarTech Micro-Melt® R31233	13.93											
CarTech Micro-Melt® TDCA	10.07											

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CarTech Micro-Melt® WearCorr™	14.03											
CarTech UltraFine CCM®	15.19											
CarTech UltraFine® CCM PLUS®	15.19											
CarTech UltraFine® CoCr	16.13											
CarTech UltraFine® F-75HP	15.84											
CarTech UltraFine® H25	15.45											
Micro-Melt® Maraging 509B	15.94											
CarTech Micro-Melt® CTS	15.43											
Micro-Melt Biodur CCM® LS	15.97											
Micro-Melt CCM® A764 Mod	16.07											
CarTech Micro-Melt® CoWCr	17.54											
CarTech UltraFine® FeCo50	11.15											
CarTech Micro-Melt® CCM MC	15.01											
Cobalt/Nickel-based (powder products)												
Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech UltraFine® MP35N®	10.06	-	-	-	-	-	-	-	-	13.04	13.14	12.58
Copper-based (powder products)												
Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® C18200	2.53											
CarTech Micro-Melt® CuNiSiCr	2.54											
CarTech Micro-Melt® G72	2.69											
CarTech UltraFine® CuNiSnP	3.23											
CarTech UltraFine® C621	2.88											
CarTech UltraFine® Cu15SnP	3.24											
CarTech UltraFine® Cu-Electr.	2.51											
CarTech UltraFine® Copper-MIM	2.53											
UltraFine® C18000	2.52											
Iron-based (powder products)												
Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® 5506	2.10											
CarTech Micro-Melt® 654SMO	1.67											
CarTech Micro-Melt® 904L	1.61											
CarTech Micro-Melt® BS2766	1.59											
CarTech Micro-Melt® Fe LC	0.19											
CarTech Micro-Melt® Fe Powder	0.20											
CarTech Micro-Melt® LAW 100X	0.19											
CarTech Micro-Melt® Sanicro 28	1.69											
CarTech Micro-Melt® 28	1.69											
CarTech Micro-Melt NCORR®	1.87											
CarTech Micro-Melt Hiperco® 50	11.91											
CarTech Micro-Melt® FeCoTa	28.28											

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CarTech Micro-Melt® FeCoCrNi	7.64
CarTech Micro-Melt® FeCoTaMo	24.42
CarTech Micro-Melt® AFA25	2.15
CarTech Micromelt® AFA25	2.15
CarTech Micro-Melt Ferrium®M41	9.10
CarTech Micro-Melt® 2507 SDplx	1.51
CarTech Micro-Melt® VeKo25Cr	3.47
CarTech Micro-Melt® 1.4313	0.80
Micro-Melt Aermet-for-tooling®	3.59
CarTech Micro-Melt® A-286	2.14

Iron/Cobalt-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech UltraFine Hiperc® 50	11.81											
Micro-Melt Hiperc® 50 HS	14.13											

Iron/Nickel (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech UltraFine® GHS 4	2.71											

Nickel-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech IN100	4.00											
CarTech Micro-Melt® 230	6.31											
CarTech Micro-Melt® 247LC	8.03											
CarTech Micro-Melt®247LC Mod 1	7.86											
CarTech Micro-Melt® 282	5.79											
CarTech Micro-Melt® 50/50	3.31											
CarTech Micro-Melt® 600	3.05											
CarTech Micro-Melt® 622	4.57											
CarTech Micro-Melt® 622 AWS	4.64											
CarTech Micro-Melt® 625	3.50											
CarTech Micro-Melt® 625+W	4.11											
CarTech Micro-Melt® 625AM	4.35											
CarTech Micro-Melt® 625Ar	4.35											
CarTech Micro-Melt® 625LF	4.33											
CarTech Micro-Melt® 625M	4.46											
CarTech Micro-Melt® 713C	3.39											
CarTech Micro-Melt® 718	3.41											
CarTech Micro-Melt® 80/20	3.28											
CarTech Micro-Melt® 825	2.21											
CarTech Micro-Melt® A4777	2.99											
CarTech Micro-Melt® A4778	3.06											
CarTech Micro-Melt® A4779	3.13											

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CarTech Micro-Melt® A4782	3.01
CarTech Micro-Melt® B27	3.15
CarTech Micro-Melt® B40	3.07
CarTech Micro-Melt® B56	2.98
CarTech Micro-Melt® B60+	2.94
CarTech Micro-Melt® C-276	4.88
CarTech Micro-Melt® C-901	3.96
CarTech Micro-Melt® G142	3.04
CarTech Micro-Melt® G173	6.94
CarTech Micro-Melt® G183	5.72
CarTech Micro-Melt® G186	6.21
CarTech Micro-Melt® G192	3.05
CarTech Micro-Melt® G202	3.41
CarTech Micro-Melt® G207	3.20
CarTech Micro-Melt® G81	3.01
CarTech Micro-Melt® GHS-4	3.03
CarTech Micro-Melt® HX	3.40
CarTech Micro-Melt® HyMu 800	3.22
CarTech Micro-Melt® HyMu "800"	3.22
CarTech Micro-Melt® IN738	6.32
CarTech Micro-Melt® MAR-M-247	8.45
CarTech Micro-Melt® N5A	5.87
CarTech Micro-Melt® N5A/N5B	5.83
CarTech Micro-Melt® N5B	5.74
CarTech Micro-Melt® NFM 24	6.30
CarTech Micro-Melt® NiCoCrMo	6.70
CarTech Micro-Melt® NiCrMoAl	3.38
CarTech Micro-Melt® NiCrMoB	4.22
CarTech Micro-Melt® TDCA/TDCB	9.18
CarTech Micro-Melt® TDCB	7.47
CarTech UltraFine® 713C	3.38
CarTech UltraFine® 718	2.76
CarTech UltraFine® Alloy X	3.20
CarTech UltraFine® HX	3.80
CarTech UltraFine® K500	5.96
CarTech UltraFine® NiCoCrAlY	6.78
CarTech Micro-Melt® BRB	4.93
CarTech Micro-Melt® G204	3.00
CarTech Micro-Melt® Waspaloy	6.07
CarTech Micro-Melt® A914	6.84
CarTech Micro-Melt® 5 Fe	10.36

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CarTech Micro-Melt® 725	4.01
CarTech UltraFine® 625	4.35
CarTech UltraFine® Fe-50Ni	1.75
CarTech Micro-Melt® L1	4.65
CarTech Micro-Melt® Ni-24.5Cr	3.31
CarTech Micro-Melt® HX-1LC	3.92
CarTech Micro-Melt® R95	5.77
CarTech Micro-Melt® R125-1	8.22
CarTech Micro-Melt® C263	7.40
CarTech Micro-Melt® 718 AM	3.38
CarTech Micro-Melt® 690	3.04
CarTech Micro-Melt® 82	3.50
Micro-Melt® STAL18SILAY	7.07
CarTech Micro-Melt® 738 LC	6.30
CarTech Micro-Melt® 263	7.60
CarTech Micro-Melt® HX LC	3.80
CarTech Micro-Melt® HX-4	3.79
CarTech Micro-Melt® R77	6.25
CarTech Micro-Melt® 109 Mod	7.84
CarTech Micro-Melt® Ni60H	2.97
CarTech Micro-Melt® 625F-1	4.23
CarTech Micro-Melt® 792	7.80
CarTech Micro-Melt® NiCrAlY	2.97
CarTech Micro-Melt® 720	6.41
CarTech UltraFine® Ni20Cr	3.34
CarTech UltraFine® NiCrMo	3.15
CarTech UltraFine® 90	6.62
CarTech UltraFine® M400	3.03
CarTech UltraFine® R77	6.24
UltraFine® Maraging 247	8.18
CarTech UltraFine® HyMu 800	3.22
CarTech Micro-Melt® 75	2.78

Tool Steel (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt Custom470®	0.71											
CarTech Micro-Melt Custom 470®	0.71											
CarTech Micro-Melt®100	0.99											
CarTech Micro-Melt® 100	0.99											
CarTech Micro-Melt®100Cr6	0.20											
CarTech Micro-Melt® 100Cr6	0.20											
CarTech Micro-Melt®1045	0.19											

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CarTech Micro-Melt® 1045	0.19
CarTech Micro-Melt®15Cr-5Ni	0.88
CarTech Micro-Melt® 15Cr-5Ni	0.88
CarTech Micro-Melt®16MnCr5	0.20
CarTech Micro-Melt® 16MnCr5	0.20
CarTech Micro-Melt®17Cr-4Ni	0.51
CarTech Micro-Melt® 17Cr-4Ni	0.51
CarTech Micro-Melt® 20-4	2.62
CarTech Micro-Melt®2205 Duplex	0.81
CarTech Micro-Melt®2505 SDplx	0.85
CarTech Micro-Melt®2205 SDplx	0.85
CarTech Micro-Melt® 2205M	0.82
CarTech Micro-Melt® 23	3.24
CarTech Micro-Melt® 2357	0.94
CarTech Micro-Melt® 23S	3.23
CarTech Micro-Melt® 25-10-10	2.66
CarTech Micro-Melt® 253	1.40
CarTech Micro-Melt® 254SMO	1.42
CarTech Micro-Melt® 25-7-4	1.00
CarTech Micro-Melt® 2739	5.71
CarTech Micro-Melt® 2888	3.63
CarTech Micro-Melt® 2906	0.83
CarTech Micro-Melt® 30	4.51
CarTech Micro-Melt® 304	0.56
CarTech Micro-Melt® 304B4	1.24
CarTech Micro-Melt® 304B6	1.24
CarTech Micro-Melt® 304B7	1.26
CarTech Micro-Melt® 304L	1.10
CarTech Micro-Melt® 308L Mod	0.63
CarTech Micro-Melt® 309L	1.42
CarTech Micro-Melt® 30LS	5.34
CarTech Micro-Melt® 30Nb	5.40
CarTech Micro-Melt® 312	0.66
CarTech Micro-Melt® 316L	0.78
CarTech Micro-Melt® 316L AWS	0.85
CarTech Micro-Melt® 316L+S	0.85
CarTech Micro-Melt® 316LHSi	1.45
CarTech Micro-Melt® 316LN	1.41
CarTech Micro-Melt® 316Lx1.5	1.14
CarTech Micro-Melt® 347H	0.64
CarTech Micro-Melt® 410	0.29

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CarTech Micro-Melt® 410L	0.60
CarTech Micro-Melt® 4112	0.41
CarTech Micro-Melt® 4130	0.25
CarTech Micro-Melt® 4140	0.23
CarTech Micro-Melt® 416R	0.31
CarTech Micro-Melt® 420	0.63
CarTech Micro-Melt® 420 LCM	0.64
CarTech Micro-Melt® 420-CW	4.84
CarTech Micro-Melt® 420LC	0.63
CarTech Micro-Melt® 422	0.93
CarTech Micro-Melt® 431	0.79
CarTech Micro-Melt® 4340	0.25
CarTech Micro-Melt® 4370	1.07
CarTech Micro-Melt® 440	3.48
CarTech Micro-Melt® 440C	0.81
CarTech Micro-Melt® 440-XH	1.11
CarTech Micro-Melt® 4848	1.67
CarTech Micro-Melt® 53	5.20
CarTech Micro-Melt® 5499	0.76
CarTech Micro-Melt® 60	6.82
CarTech Micro-Melt®6126Ni-free	1.13
CarTech Micro-Melt® 7339	0.26
CarTech Micro-Melt® 736A	1.17
CarTech Micro-Melt® 80	9.63
CarTech Micro-Melt® 800	8.76
CarTech Micro-Melt® 9038	2.24
CarTech Micro-Melt® 9040	3.22
CarTech Micro-Melt® 9055	4.52
CarTech Micro-Melt® 9078	4.69
CarTech Micro-Melt® 9098	2.45
CarTech Micro-Melt® 9655	1.26
CarTech Micro-Melt® 9659	2.00
CarTech Micro-Melt® 9660	2.00
CarTech Micro-Melt® A11	5.16
CarTech Micro-Melt® A11HC	6.10
CarTech Micro-Melt® A11LVC	4.95
CarTech Micro-Melt® A11-VP	5.45
CarTech Micro-Melt®Aermet®100	3.70
CarTech Micro-Melt® Aermet®100	3.70
CarTech Micro-Melt® AISI8740	0.25
CarTech Micro-Melt® AM400Plus	1.02

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CarTech Micro-Melt® APM 2370	0.88
CarTech Micro-Melt® CD#1	0.92
CarTech Micro-Melt® D2	0.99
CarTech Micro-Melt® D7	2.43
CarTech Micro-Melt® Duplex 22	0.81
CarTech Micro-Melt® F22	0.42
CarTech Micro-Melt® FeSi	0.21
CarTech Micro-Melt® FeSi 600	0.21
CarTech Micro-Melt® Grade 92	0.60
CarTech Micro-Melt® H13	1.52
CarTech Micro-Melt® H163	3.73
CarTech Micro-Melt® HS-30	4.45
CarTech Micro-Melt® M300	3.76
CarTech Micro-Melt® M4	3.62
CarTech Micro-Melt® M4 HCS	3.84
CarTech Micro-Melt® M42	3.18
CarTech Micro-Melt® M48	5.16
CarTech Micro-Melt® M48 LS	5.20
CarTech Micro-Melt® Maxamet®	6.82
CarTech Micro-Melt® MV 11K	2.34
CarTech Micro-Melt® NOREM 02	0.37
CarTech Micro-Melt® O6	0.20
CarTech Micro-Melt® P-28	1.99
CarTech Micro-Melt® PD#1	1.76
CarTech Micro-Melt® PD#5	2.92
CarTech Micro-Melt® SA508	0.27
Micro-Melt® Sanicro 15-5PH	0.50
CarTech Micro-Melt® 15-5PH	0.50
CarTech Micro-Melt® T15	5.46
CarTech Micro-Melt® T15 Plus	5.81
CarTech Micro-Melt® TD#1	1.29
CarTech Micro-Melt® TF1	1.53
CarTech Micro-Melt® TF6	7.63
CarTech Micro-Melt® TMM	0.97
CarTech Micro-Melt® VA176	6.18
CarTech Micro-Melt® W4841Nb	0.97
CarTech Micro-Melt® X245	5.35
Micro-Melt® X4CrNiMo 16-5-1	0.41
CarTech UltraFine® 1.2709	3.31
CarTech UltraFine® 1.4435	1.94
CarTech UltraFine® 17Cr-4Ni	0.94

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CarTech UltraFine® 304L	0.55
CarTech UltraFine® 316L	0.85
CarTech UltraFine® 410L	0.27
CarTech UltraFine® 430L	0.75
CarTech UltraFine® 4340	0.25
CarTech UltraFine® 4340 MA 3X	0.25
CarTech UltraFine® 440C+1.5Nb	0.93
CarTech UltraFine® D2	0.90
CarTech UltraFine® Fe14MnC	0.22
UltraFine® Fe17Cr11Mn3Mo	1.12
CarTech UltraFine® FeCrMnMo	1.12
CarTech UltraFine® Fe-30Cr	1.17
CarTech UltraFine® Fe30Ni	1.13
CarTech UltraFine® Fe8Ni	0.44
CarTech UltraFine® FeCrAlY	0.35
CarTech UltraFine® FeSiAl	0.25
CarTech UltraFine® H13	0.92
CarTech UltraFine® M2	2.90
CarTech UltraFine® Mod FeSiAl	0.25
CarTech UltraFine® S7	0.45
CarTech UltraFine® SCM415	0.20
UltraFine® X2NiCoMo 18-9-5	3.24
CarTech UltraFine® X65Cr13	0.65
CarTech Micro-Melt® 65Fe35Co	7.86
CarTech Micro-Melt® 255N	1.58
CarTech Micro-Melt® 431 FM	0.78
CarTech Micro-Melt® 21-6-9	1.12
CarTech Micro-Melt® 9310	0.35
CarTech UltraFine® Fe-3Si	0.19
CarTech UltraFine® SKH57	6.48
CarTech UltraFine® Fe-6Si	0.20
CarTech UltraFine® F15	4.82
CarTech UltraFine® 347	1.12
CarTech UltraFine® Fe-18Cr	0.78
CarTech UltraFine® 4140	0.25
CarTech UltraFine® VeKo25Cr	4.19
CarTech UltraFine® 4140 MA	0.37
CarTech UltraFine® HK30	1.81
CarTech UltraFine® Fe-42Ni	1.51
CarTech UltraFine® 218	1.69
CarTech Micro-Melt® 7570	2.96

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CarTech Micro-Melt Invar 36®	1.32
CarTech Micro-Melt® Alloy 1	1.03
CarTech Micro-Melt® EN25	0.36
CarTech Micro-Melt® PWC7	7.31
CarTech Micro-Melt® 4304-2	1.14
CarTech Micro-Melt® BSEC510	0.28
CarTech Micro-Melt® P21 Mod	0.44
CarTech Micro-Melt® 177-1	0.97
CarTech Micro-Melt® FeCoMo	5.17
CarTech Micro-Melt® 13Cr-8Ni	1.09
CarTech Micro-Melt® FeCrWTi	1.09
CarTech Micro-Melt® 316L Mod-1	1.23
CarTech Micro-Melt® 316L Mod-2	1.22
CarTech Micro-Melt® 316L Mod-3	1.66
CarTech Micro-Melt® C300	3.24
CarTech Micro-Melt® 420-CW Mod	5.65
Micro-Melt Ferrium® PH48S	2.62
CarTech Micro-Melt® Fe-10Ni	0.59
Micro-Melt Ferrium® C64	4.34
CarTech Micro-Melt® SA508 Gr4N	0.45
CarTech UltraFine® 17Cr-4Ni Ar	1.04
CarTech Micro-Melt® HTMO	1.00
CarTech Micro-Melt® 1.2709	3.29
CarTech Micro-Melt® NitroMaxx	1.37
CarTech Micro-Melt® M152	1.02
CarTech Micro-Melt® FeCrAlTi	0.87
CarTech Micro-Melt® SHS8000	1.61
CarTech UltraFine® 13Cr-8Ni	1.10
CarTech UltraFine® 42CrMo4	0.25
UltraFine® BioDur 108 low Ni	1.15
CarTech UltraFine® 420	0.80
CarTech UltraFine BioDur® 108	1.15
CarTech UltraFine Custom 465®	1.03
CarTech UltraFine® Fe10Mn3Si	0.27
CarTech UltraFine® 440A	0.75
CarTech UltraFine® 15Cr-5Ni	0.93
CarTech UltraFine® X20Cr13	0.64
CarTech UltraFine® S5	0.28
CarTech UltraFine® FeCoSiNbBCu	7.51
CarTech UltraFine® 18Ni300	3.25
CarTech UltraFine® Fe6.5Si5Cr	0.36

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CarTech UltraFine Custom 455®	0.93
CarTech UltraFine Custom 475®	3.19
CarTech UltraFine® FeSiNbCuB	0.92
UltraFine Hi Permeability 49®	1.69
CarTech UltraFine® X25CrMo14	0.78
CarTech UltraFine® A2	0.66
CarTech UltraFine® 303	1.14
CarTech UltraFine® FeCo35	7.86
CarTech UltraFine® 440C	0.75
CarTech UltraFine® 420Mod	5.54
CarTech Micro-Melt® 9043	3.28
CarTech Micro-Melt® AF9628	0.34
MS-1(N)	3.27
CarTech Micro-Melt NiMark® 350	3.90
CarTech UltraFine® 316L Mod	1.05
CarTech Micro-Melt® 416	0.66
CarTech Micro-Melt® 30CD12	0.28
CarTech Micro-Melt® Wear 26	1.60
CarTech Micro-Melt® Wear 20	2.58

Tungsten/Nickel-based (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt® Amega NM	9.76											
CarTech Micro-Melt® NT-60	11.64											
CarTech Micro-Melt® NT-60KS	11.17											
CarTech Micro-Melt® NT-60SP	11.49											
CarTech Micro-Melt® NT-70SP	12.92											
CarTech Micro-Melt® NT-65	12.31											
CarTech Micro-Melt® NT-50 SPH	10.47											

Other (powder products)

Alloy Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CarTech Micro-Melt®Pyrowear 53	0.65											
Micro-Melt® Glass Sealing 18	0.31											
CarTech UltraFine® 1.4923	2.33											
CarTech Micro-Melt® 901	2.12											
CarTech Micro-Melt® 5120	0.23											
CarTech UltraFine® 1.4848	1.65											

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