

**CARPENTER**

Bar (Round, Hex, Square, Flats, Hollows) | Rod and Wire | Fine Wire and Ribbon | Precision Strip | Billet | Plate | Sheet | Powder

GRADE UNS

▼ HIGH TEMPERATURE ALLOYS

CarTech™ 422/636 Alloy CarTech ACUBE®100 CarTech C263
 CarTech Alloy W
 CarTech Custom Age 625 PLUS®N07716 CarTech Custom Age 625 PLUS® HS
 CarTech Custom Age 725™
 CarTech Greek Ascobly (AMS 5616)S41800 CarTech 418
 CarTech L-605R30605 CarTech Alloy 2 (AMS 5842)
 CarTech 159
 CarTech MP35N¹R30035
 CarTech NiMark®250K92890
 CarTech NiMark®300K93120
 CarTech 286-LNiS66285
 CarTech Alloy 925N09925 CarTech Customet®A-286
 CarTech A-286S66286
 CarTech CTX-1N11903
 CarTech CTX-3N11907
 CarTech CTX-909N11909
 CarTech X-750N07750 CarTech 26
 CarTech 31VN07032
 CarTech 41N07041
 CarTech 80AN07080 CarTech 120
 CarTech 188
 CarTech 600N06600
 CarTech 617N06617
 CarTech 625N06625 CarTech 625 Weld/WELD 6
 CarTech 680N06002
 CarTech 718N07718 CarTech 720
 CarTech 751
 CarTech 882T20811
 CarTech 901N09901 CarTech CASQ/72 W
 CarTech Thermo-Span®
 CarTech WaspabyN07001
 CarTech Jethete M152S64152

▼ ALLOY STEELS (including bearing and gearsteels)

CarTech AerMet®100K92580 CarTech AerMet 310
 CarTech AerMet 340 CarTech PremoMet® CarTech Temper Tough™ CarTech Pyrowear®53
 CarTech LESCO®53 CarTech 300M
 CarTech M-50K88165 CarTech Ferrium® M54²
 CarTech Ferrium®S53² CarTech 52100
 CarTech 4340

GRADE UNS

CarTech 9310
 CarTech No.158®T51606 CarTech 21-2N
 CarTech 21-4N
 CarTech 21-12NK63017 CarTech 23-8N
 CarTech CBS-223
 CarTech CBS-600K21940
 CarTech CSS-42LS42640 CarTech 16NCD13
 CarTech 35NCD16
 CarTech 4330K23080
 CarTech 4335K33517 CarTech AF1410/
 AF1410 ModK92571 CarTech D6ACK24728
 CarTech HP 9-4-20K91472
 CarTech HP 9-4-30K91283
 CarTech HY-180K91971
 CarTech HyTufK32550
 CarTech 6305K14675 CarTech UT-18
 CarTech BG-42S42700 CarTech Nitralloy N
 CarTech Nitralloy 135MK24065
 CarTech Ferrium®C61™K93061 CarTech Ferrium C64²

▼ STAINLESS STEELS**Standard Austenitic Stainless Steels**

CarTech 302S30200 CarTech CustomFlo 302HQS30430 CarTech 302HQ-FM®S30431
 CarTech 302HQ-SFQS30430 CarTech 303 Project 70+®S30300 CarTech 303/303 HS
 CarTech 303-SeS30323 CarTech 304/304L Project 70+S30400 CarTech 304/304LS30400 S30403 CarTech 305S30500
 CarTech 309S30900
 CarTech 310S31000 CarTech 316/316L Project 70+S31600 CarTech 316/316LS31603
 CarTech 316L-SCQ®S31603
 CarTech 321S32100
 CarTech 330S38400 CarTech 347

Martensitic Stainless Steels

CarTech 410S41000 CarTech L410CB/403CB+
 CarTech 416 Project 70+S41600
 CarTech 416 (No. 5)S41600
 CarTech 416BQ (No. 5BQ)S41600 CarTech 416 Low Sulfur
 CarTech T416 Modified Sulfur
 CarTech 420S42000
 CarTech 420FS42020
 CarTech 431S43100
 CarTech 440AS44002

GRADE UNS

CarTech 440CS44004
 CarTech TrimRite®S42010 CarTech Trinamet®
 CarTech Trinamet®300
 CarTech Pyrowear®675

Ferritic Stainless Steels

CarTech 409CbS40940 CarTech 409Cb-FM
 CarTech 409Cb Nigh Ni
 CarTech 430S43000
 CarTech 430FS43020 CarTech 430FR
 Solenoid Quality
 CarTech XM-27

Precipitation Hardenable Stainless Steels

CarTech Custom 450®S45000
 CarTech Custom 455®S45500 CarTech Custom 465®
 CarTech Custom 475®
 CarTech Custom 630 (17Cr-4Ni) Project 70+S17400
 CarTech Custom 630 (17Cr-4Ni)S17400 CarTech Custom 631 (17Cr-7Ni)S17700 CarTech 15Cr-5NiS15500 CarTech 15Cr-5Ni Project 70+S15500 CarTech 15-7PH
 CarTech 13Cr-8NiS13800
 CarTech 350S35000
 CarTech 355S35000 CarTech Touralloy 230 Plus

Super Austenitic Stainless Steels

CarTech 20Cb-3®N08020
 CarTech C-276N10276
 CarTech 20Mo-6HSN08036

Nitrogen Strengthened Austenitic Stainless Steels

CarTech 15-15HS® Max CarTech 15-15LC® Modified CarTech 201 Modified
 CarTech 18Cr-2Ni-12MnS24100 CarTech 18-3-12
 CarTech 21Cr-6Ni-9MnS21904
 CarTech 22Cr-13Ni-5MnS20910
 CarTech GolfTough®S20161
 CarTech GolfTough PlusS21800 CarTech SCF 19® Max
 CarTech SCF 260™

Duplex Stainless Steels

CarTech 2205
 CarTech Micro-Melt®2101 Lean Duplex CarTech Micro-Melt 2304 Lean Duplex CarTech Micro-Melt 2205 Duplex
 CarTech Micro-Melt 2505 Super Duplex CarTech Micro-Melt 100 Super Duplex CarTech Micro-Melt 2507 Super Duplex

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Want to know more? Technical datasheets for Carpenter's products are available at the Alloy Tech Zone at www.yttzhj.com

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Borated Stainless Steels

CarTech Micro-Melt® NeutroSorb®
CarTech Micro-Melt® NeutroSorb-Plus®S30460S30467

▼ DYNAMET TITANIUM

6Al-2Sn-4Zr-2Mo
6Al-4V
6Al-4V/El
6Al-4V/El WW
6Al-4V Rotor Quality
6Al-6V-2Sn
6Al-7Nb
CP Grade 1
CP Grade 2
CP Grade 3
CP Grade 4 Ti Pd
Ti Co
15V-3Cr-3Sn-3Al
3Al-2.5V
3Al-8V-6Cr-4Mo-4Zr
15Mo

▼ NICKEL-COPPER ALLOYS

CarTech Ni-Cu 400N04400 CarTech Ni-Cu
400 HS
CarTech Ni-Cu 405 CarTech Ni-Cu K500

▼ MAGNETIC, CONTROLLED EXPANSION, ELECTRICAL, AND ELECTRONIC ALLOYS

High Permeability Alloys

CarTech Hy-Ra "49"K94840 CarTech High
Permeability "49"®K94840 CarTech High
Permeability "55"
CarTech HyMu "77" CarTech HyMu "80"® CarTech HyMu
"800" CarTech Hiperco® 15 CarTech Hiperco 27
CarTech Hiperco 50 CarTech Hiperco 50A CarTech Hiperco
50 HS CarTech Roteloy 3
CarTech Roteloy 8

Magnetic Core Irons

CarTech Electrical Iron
CarTech Vacum® Consumer® Caelron CarTech Chrome
Core® 12-FM
CarTech Chrome Core 13-FM CarTech Chrome Core 13-XP
CarTech Chrome Core 18-FM CarTech Silicon Caelron "A"
CarTech Silicon Caelron "B" CarTech Silicon Caelron "B-
FM" CarTech 430FR Solenoid Quality

Temperature Compensator Alloys

CarTech Temperature Compensator "30"® (Type 2, 3, 4)
CarTech Temperature Compensator "32" (Type 1)

High Expansion Alloys CarTech High Expansion "19-7"
CarTech High Expansion 20-6

CarTech High Expansion 22-3 CarTech High Expansion 25-8
CarTech High Expansion "72"

Low Expansion Alloys

CarTech Invar "36"®/Free CutK93601/03 CarTech
Low Expansion "38-7"
CarTech Low Expansion "39"
CarTech Low Expansion "42"®K94101 CarTech
Low Expansion 43-PH
CarTech Low Expansion "49"

Glass and Ceramic Sealing Alloys

CarTech Glass Sealing "27"
CarTech Glass Sealing "42"K94100 CarTech
Glass Sealing "42-6"
CarTech Glass Sealing "52"K95050
CarTech Kovar®K94610

Magnetic Alloys CarTech MagnaDur® 20-4 CarTech P6

Electrical Resistance Alloys

CarTech Manganin 13
CarTech No. 1 JR® (Types 1 and 2)

▼ TOOL AND DIE STEELS

Micro-Melt® High Speed Steels

CarTech Micro-Melt Maxamet®
CarTech Micro-Melt M3 Class 2T11323 CarTech
Micro-Melt M4T11304
CarTech Micro-Melt M42T11342
CarTech Micro-Melt M48T11248
CarTech Micro-Melt M62T11362 CarTech
Micro-Melt 60
CarTech Micro-Melt T15T12015 CarTech
Micro-Melt T15 Plus
CarTech Micro-Melt 23 (M3)T11323 CarTech
Micro-Melt HS30
CarTech Micro-Melt M4+5

High Speed Steels

CarTech M1T11301
CarTech M2T11302
CarTech M4T11304
CarTech M7T11307
CarTech M10T11310 CarTech M11
CarTech M42T11342

Ultra-High Combined Strength and Toughness Alloy

CarTech AerMet® for ToolingK92580

Micro-Melt® Cold Work Tool Steels

CarTech Micro-Melt® A11-LVC CarTech Micro-Melt A11
CarTech Micro-Melt CD#1 CarTech Micro-Melt PD#1
CarTech Micro-Melt PD#5 CarTech Micro-Melt TD1

Micro-Melt® Corrosion and Wear Resistant Cold Work Tool Steels

CarTech Micro-Melt® 440CS44004 CarTech
Micro-Melt 440-XH®
CarTech Micro-Melt 420-CW CarTech Micro-Melt 20-4

Cold Work Tool and Die Steels

CarTech A2T30102
CarTech A6T30402
CarTech D2T30403
CarTech D3T61203
CarTech L6T31501
CarTech O1T31506
CarTech O6T41902
CarTech S2T41905
CarTech S5T41907
CarTech S7T30108 CarTech A18
CarTech A8T30108 CarTech A18
CarTech 144CRMO

Hot Work Tool and Die Steels

CarTech H11T20811
CarTech H13T20813
CarTech H19T20819 CarTech Extend-
Die®
CarTech Pyrotol® AK66286
CarTech Pyrotol 7N07718

Mold Steels

CarTech No. 158® (P6)T51606
CarTech 420S42000

▼ LOOSE POWDER ALLOYS - CPP

Carpenter also offers a broad range of gas atomized loose metallic powder alloys:

- Hot isostatically pressed (HIP'd) billets and heat-treated (NNS) products
- Metal injection molding (MIM)
- Hardfacing and weld overlays by PTA and laser welding
- Thermal spray and gas turbine refurbishment
- High-temperature brazing applications Laser additive manufacturing

▼ CUTTING BLADE ALLOYS

CarTech CTS® Alloys
Request the Cutting Blade Line Card for more info on Carpenter and Latrobe knife and blade steels.

▼ MEDICAL IMPLANT ALLOYS

CarTech BioDur® Alloys
Request the Medical Market Line Card for more info on cobalt base, stainless, and titanium medical alloys.

▼ REINFORCING BAR ALLOYS

CarTech EnduraMet® Stainless Steels

▼ HEATING ELEMENT ALLOYS

CarTech Taphet® Alloy A
CarTech Taphet Alloy C

▼ RESISTANCE ALLOYS

CarTech Evandm® Alloy R
CarTech CBX Cupron®



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