

**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 CustomAge625 PLUS® .....N07716 CarTech CustomAge625 PLUS®HS  
CarTech CustomAge725™  
CarTech Greek Ascobly (AMS 5616) .....S41800 CarTech 418  
CarTech L-605 .....R30605 CarTech Alloy 2 (AMS 5842)  
CarTech 159  
CarTech MP35N<sup>1</sup> .....R30035  
CarTech NiMark®250 .....K92890  
CarTech NiMark®300 .....K93120  
CarTech 286-LNi .....S66285  
CarTech Alloy 925 .....N09925 CarTech Customet®A-286  
CarTech A-286 .....S66286  
CarTech CTX-1 .....N11903  
CarTech CTX-3 .....N11907  
CarTech CTX-909 .....N11909  
CarTech X-750 .....N07750 CarTech 26  
CarTech 31V .....N07032  
CarTech 41 .....N07041  
CarTech 80A .....N07080 CarTech 120  
CarTech 188  
CarTech 600 .....N06600  
CarTech 617 .....N06617  
CarTech 625 .....N06625 CarTech 625 Weld/ WELD 6  
CarTech 680 .....N06002  
CarTech 718 .....N07718 CarTech 720  
CarTech 751  
CarTech 882 .....T20811  
CarTech 901 .....N09901 CarTech CASQ/72 W  
CarTech Thermo-Span®  
CarTech Waspaby .....N07001  
CarTech Jethete M152 .....S64152

**▼ ALLOY STEELS (including bearing and gearsteels)**

CarTech AerMet®100 .....K92580 CarTech AerMet 310  
CarTech AerMet 340 CarTech PremoMet® CarTech Temper Tough® CarTech Pyrowear®53  
CarTech LESCO®53 CarTech 300M  
CarTech M-50 .....K88165 CarTech Ferrium® M54<sup>®2</sup>  
CarTech Ferrium®S53<sup>®2</sup> CarTech 52100  
CarTech 4340

GRADE UNS

CarTech 9310  
CarTech No.158® .....T51606 CarTech 21-2N  
CarTech 21-4N  
CarTech 21-12N .....K63017 CarTech 23-8N  
CarTech CBS-223  
CarTech CBS-600 .....K21940  
CarTech CSS-42L .....S42640 CarTech 16NCD13  
CarTech 35NCD16  
CarTech 4330 .....K23080  
CarTech 4335 .....K33517 CarTech AF1410/ AF1410 Mod .....K92571 CarTech D6AC .....K24728  
CarTech HP 9-4-20 .....K91472  
CarTech HP 9-4-30 .....K91283  
CarTech HY-180 .....K91971  
CarTech HyTuf .....K32550  
CarTech 6305 .....K14675 CarTech UT-18  
CarTech BG-42 .....S42700 CarTech Nitralloy N  
CarTech Nitralloy 135M .....K24065  
CarTech Ferrium®C61™ .....K93061 CarTech Ferrium C64<sup>®2</sup>

**▼ STAINLESS STEELS****Standard Austenitic Stainless Steels**

CarTech 302 .....S30200 CarTech CustomFlo 302HQ .....S30430 CarTech 302HQ-FM® .....S30431  
CarTech 302HQ-SFQ .....S30430 CarTech 303 Project 70+ .....S30300 CarTech 303/303 HS  
CarTech 303-Se .....S30323 CarTech 304/304L Project 70+ .....S30400 CarTech 304/304L .....S30400 S30403 CarTech 305 .....S30500  
CarTech 309 .....S30900  
CarTech 310 .....S31000 CarTech 316/316L Project 70+ .....S31600 CarTech 316/316L .....S31603  
CarTech 316L-SCQ® .....S31603  
CarTech 321 .....S32100  
CarTech 330 .....S38400 CarTech 347

**Martensitic Stainless Steels**

CarTech 410 .....S41000 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 420 .....S42000  
CarTech 420F .....S42020  
CarTech 431 .....S43100  
CarTech 440A .....S44002

GRADE UNS

CarTech 440C .....S44004  
CarTech TrimRite® .....S42010 CarTech Trinamet®  
CarTech Trinamet®300  
CarTech Pyrowear®675

**Ferritic Stainless Steels**

CarTech 409Cb .....S40940 CarTech 409Cb-FM  
CarTech 409Cb Nigh Ni  
CarTech 430 .....S43000  
CarTech 430F .....S43020 CarTech 430FR  
Solend Quality  
CarTech XM-27

**Precipitation Hardenable Stainless Steels**

CarTech Custom450® .....S45000  
CarTech Custom455® .....S45500 CarTech Custom465®  
CarTech Custom475®  
CarTech Custom630 (17Cr-4Ni) Project 70+ .....S17400  
CarTech Custom630 (17Cr-4Ni) .....S17400 CarTech Custom631 (17Cr-7Ni) .....S17700 CarTech 15Cr-5Ni .....S15500 CarTech 15Cr-5Ni Project 70+ .....S15500 CarTech 15-7PH  
CarTech 13Cr-8Ni .....S13800  
CarTech 350 .....S35000  
CarTech 355 .....S35000 CarTech Touralloy 230 Plus

**Super Austenitic Stainless Steels**

CarTech 20Cb-3® .....N08020  
CarTech C-276 .....N10276  
CarTech 20Mo-6HS .....N08036

**Nitrogen Strengthened Austenitic Stainless Steels**

CarTech 15-15HS® Max CarTech 15-15LC® Modified CarTech 201 Modified  
CarTech 18Cr-2Ni-12Mn .....S24100 CarTech 18-3-12  
CarTech 21Cr-6Ni-9Mn .....S21904  
CarTech 22Cr-13Ni-5Mn .....S20910  
CarTech GolfTough® .....S20161  
CarTech GolfTough Plus .....S21800 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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### Borated Stainless Steels

CarTech Micro-Melt® NeutroSorb®  
CarTech Micro-Melt® NeutroSorb-Plus® .....S30460S30457

### ▼ DYNAMET TITANIUM

6Al-2Sn-4Zr-2Mo  
6Al-4V  
6Al-4V Eli  
6Al-4V Eli 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 400 .....N04400 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  
Coe® 12-FM  
CarTech Chrome Coe 13-FM CarTech Chrome Coe 13-XP  
CarTech Chrome Coe 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 Cut .....K93601/03 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 2 .....T11323 CarTech  
Micro-Melt M4 .....T11304  
CarTech Micro-Melt M42 .....T11342  
CarTech Micro-Melt M48 .....T11248  
CarTech Micro-Melt M62 .....T11362 CarTech  
Micro-Melt 60  
CarTech Micro-Melt T15 .....T12015 CarTech  
Micro-Melt T15 Plus  
CarTech Micro-Melt 23 (M3) .....T11323 CarTech  
Micro-Melt HS30  
CarTech Micro-Melt M4+5

#### High Speed Steels

CarTech M1 .....T11301  
CarTech M2 .....T11302  
CarTech M4 .....T11304  
CarTech M7 .....T11307  
CarTech M10 .....T11310 CarTech M11  
CarTech M42 .....T11342

#### Ultra-High Combined Strength and Toughness Alloy

CarTech AerMet® for Tooling .....K92580

#### 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® 440C .....S44004 CarTech  
Micro-Melt 440-XH®  
CarTech Micro-Melt 420-CW CarTech Micro-Melt 20-4

### Cold Work Tool and Die Steels

CarTech A2 .....T30102  
CarTech A6 .....T30402  
CarTech D2 .....T30403  
CarTech D3 .....T61203  
CarTech L6 .....T31501  
CarTech O1 .....T31506  
CarTech O6 .....T41902  
CarTech S2 .....T41905  
CarTech S5 .....T41907  
CarTech S7 .....T30108 CarTech A18  
CarTech A8 .....T30108 CarTech A18  
CarTech 144CRMO

### Hot Work Tool and Die Steels

CarTech H11 .....T20811  
CarTech H13 .....T20813  
CarTech H19 .....T20819 CarTech Extend-  
Die®  
CarTech Pyrotol® A .....K66286  
CarTech Pyrotol 7 .....N07718

### Mold Steels

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

### ▼ 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 (HNS) 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®