

Enhanced Machining Stainless Bar

| Alloy | UNS | Stock Sizes ¹ Min | Stock Sizes ¹ Max | Machinability ² (Surface ft/min) | Hardness (Nominal,HRB) | Yield Strength (Min, ksi) |
|--------------------|----------------|---------------------------------|---------------------------------|--|---------------------------|------------------------------|
| PRODEC® 303 ● | S30300 | ¼" | 6" | 135-180 | 91 | 30 |
| PRODEC® 304/304L ● | S30400, S30403 | ⅛" | 14" | 130 | 92 | 30 |
| PRODEC® 316/316L ● | S31600, S31603 | ¼" | 20" | 95 | 92 | 30 |

Austenitic Stainless Steels

| | | | | | | |
|----------------|----------------|----|-----|-------|--------|----|
| RA 253 MA® | S30815 | ½" | 4" | 45-60 | 91 | 45 |
| 309 | S30908, S30909 | ¼" | 6" | 70-75 | 83 | 30 |
| 310 | S31008, S31009 | ¼" | 6" | 70-75 | 78 | 30 |
| 321 | S32100 | ⅜" | 7" | 75 | 82 | 30 |
| 347 | S34700 | ⅜" | 9" | 75 | 87 | 30 |
| N-50 (XM-19) | S20910 | ½" | 5½" | 20-35 | 96 | 55 |
| N-60 | S21800 | ⅜" | 8" | 20-35 | 92 | 50 |
| A-286 AMS 5737 | S66286 | ⅝" | 5" | 30-35 | 31 HRC | 95 |
| A-286 AMS 5732 | S66286 | ⅝" | 4" | 30-35 | 32 HRC | 85 |

Martensitic Stainless Steels

| | | | | | | |
|--------------|--------|----|----|-----|--------|----|
| 410 | S41000 | ½" | 6" | 75 | 95 | 42 |
| 416 Annealed | S41600 | ½" | 4" | 170 | 27 HRC | 49 |
| 440C | S44004 | ⅞" | 6" | 65 | 56 HRC | |
| 446 | S44600 | 1" | 3" | 75 | 85 | 40 |

Precipitation Hardenable Alloys

| | | | | | | |
|---------------|--------|----|-----|----|--------|-----|
| 17-4 Annealed | S17400 | ⅜" | 12" | 75 | 34 HRC | |
| 17-4 H1150 | S17400 | ½" | 6" | 80 | 33 HRC | 125 |
| 15-5 Annealed | S15500 | ⅞" | 8" | 75 | 33 HRC | |
| 13-8 Annealed | S13800 | ⅜" | 4½" | 75 | 44 HRC | |

Nickel Alloys

| | | | | | | |
|---------------------|--------|--------|-----|-------|--------|-----|
| RA330® | N08330 | ⅛" | 6" | 35-45 | 86 | 30 |
| 600 | N06600 | 0.256" | 6" | 25-35 | 85 | 35 |
| 625 | N06625 | ⅜" | 8" | 20 | 24 HRC | 60 |
| 718 AMS 5662 | N07718 | ⅜" | 10" | 20-40 | 37 HRC | 70 |
| 718 AMS 5663 (Aged) | N07718 | ½" | 3½" | 20 | 43 HRC | 175 |
| X | N06002 | ¼" | 6½" | 20 | 96 | |
| AL-6XN® | N08367 | ⅜" | 8" | 65-75 | 90 | 45 |

Duplex Stainless Steels

| | | | | | | |
|------------|----------------|----|---------|-------|--------|----|
| ZERON® 100 | S32760 | ½" | 11.811" | 30-65 | 28 HRC | 80 |
| 2205 | S31803, S32205 | ⅜" | 12" | 50-65 | 25 HRC | 65 |
| 2507 | S32750 | ¾" | 8" | 30-65 | 28 HRC | 80 |

Titanium Alloys

| | | | | | | |
|---------|--------|----|-----|-------|---|---------|
| 6-4 | R56400 | ¼" | 10" | 30-40 | - | 120 |
| 6-4 STA | R56400 | ⅞" | 2½" | 15-45 | - | 120-155 |

Precision Ground Round Bar

| | | | | | | |
|---------------|--------|----|-----|----|--------|--|
| 17-4 Annealed | S17400 | ⅛" | 1¼" | 75 | 34 HRC | |
|---------------|--------|----|-----|----|--------|--|

Aluminum

| | | | | | | |
|------------|--------|----|----|-----|----|----|
| 6061 T6511 | A96061 | ⅞" | 8" | 425 | 60 | 35 |
| 7075 T651 | A97075 | ⅞" | 4" | 425 | 87 | 66 |
| 2024 T351 | A92024 | ¾" | 3" | 425 | 75 | 45 |

¹ Stock sizes may vary. Please contact onlinesales@rolledalloys.com for a complete listing.

² The machining speeds are for single point turning operations using high speed steel tools. This information is provided as a guide to relative machineability, higher speeds are used with carbide tooling.

● Indicates hex bar stock available



UNITED STATES

California: 1.800.321.0909
Connecticut: 1.860.687.2157
Illinois: 1.888.227.7862
Michigan: 1.800.521.0332
Ohio: 1.888.421.2580
Oklahoma: 1.866.664.4298
South Carolina: 1.866.211.7006
Texas: 1.800.728.1440

www.rolledalloys.com

CANADA

Alberta: 1.866.469.9469
Ontario: 1.800.521.0332
Quebec: 1.877.450.4848

www.rolledalloys.ca

ASIA

Suzhou, Jiangsu, P.R. China :
+86 (0)512 6287 1560
www.rolledalloys.cn

Singapore: +65 6227 2725
www.rolledalloys.com.sg

EUROPE

NeoNickel is the exclusive representative of Rolled Alloys in Europe.
www.neonickel.com

PROCESSING

Laser | Laser Punch | Waterjet | Hi-Def Plasma
Shear | Plate Saw | Precision Bar Saw | Beveling
Coil Leveling | Threading | Rod Coil | CAD Nesting



E-COMMERCE SERVICES

Quote, Buy, & Track Online | 24/7 Account Access
Access Paperwork | Invoice Payment
Online Chatting | Full Technical Library



E-SERVICE STOCKING PROGRAMS

KanBan | Min/Max
Schedule Integration
Part Release



TECHNICAL SERVICES

Metallurgical Laboratories
Material Testing | Material Samples
Material Performance Analysis



QUALITY APPROVALS

ISO 9001 | AS9100 | Gulfstream Aerospace
GE Laser Approval | GE S-1000 | Rolls-Royce
Pratt & Whitney LCS | PWA | PWC | NADCAP

