

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 Steel

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	¾"	7"	75	82	30
347	S34700	¾"	9"	75	87	30
N-50 (XM-19)	S20910	½"	5 ½"	20-35	96	55
N-60	S21800	¾"	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 Steel

410	S41000	½"	6"	75	95	42
416 Annealed	S41600	½"	4"	170	27 HRC	49
416R		1"	1 ¾"		26-32 HRC	
420	S42000	¾"	4"	65	95 HRC	50
440C	S44004	⅝"	6"	65	56 HRC	
446	S44600	1"	3"	75	85	40

Precipitation Hardenable Alloys

17-4 Annealed	S17400	⅝"	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	¾"	4 ½"	75	44 HRC	

Nickel Alloys

RA330®	N08330	⅛"	6"	35-45	86	30
600	N06600	0.256"	6"	25-35	85	35
625	N06625	¾"	10"	20	24 HRC	60
718 AMS 5662	N07718	¾"	10"	20-40	37 HRC	70
718 AMS 5663 (Aged)	N07718	½"	3 ½"	20	43 HRC	175
X	N06002	¼"	6 ½"	20	96	
AL-6XN®	N08367	¾"	8"	65-75	90	45

Duplex Stainless Steel

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

Titanium

6-4	R56400	¼"	10"	30-40	-	120
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Precision Ground Round Bar

17-4 Annealed	S17400	⅛"	1 ¼"	75	34 HRC	
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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
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www.rolledalloys.com

CANADA

Alberta: 1.866.469.9469
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PROCESSING

Laser | Laser Punch | Waterjet | Hi-Def Plasma
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E-SERVICE PROGRAMS

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Material Performance Analysis



QUALITY APPROVALS

ISO 9001: 2015 | AS9100 Rev D | Rolls-Royce
Pratt & Whitney LCS | PWA | PWC | NADCAP
Gulfstream Aerospace | GE Laser | GE S-1000

