# ROLLED

# **Round Bar Reference Guide**

	Alloy	UNS	Stock Sizes <sup>1</sup> Min	Stock Sizes <sup>1</sup> Max	Machinability² (Surface ft/min)	Hardness (Nominal,HRB)	Yield Strength (Min, ksi)
Inhanced	PRODEC® 303 👄	S30300	1/4"	6"	135-180	91	30
Machining	PRODEC® 304/304L 🗢	S30400, S30403	1/8"	14"	130	92	30
Stainless Bar	PRODEC® 316/316L ●	S31600, S31603	1/4 <sup>11</sup>	20"	95	92	30
Austenitic	RA 253 MA®	S30815	1/2"	4"	45-60	91	45
Stainless Steel	309	\$30908, \$30909	1/4"	6"	70-75	83	30
	310	S31008, S31009	1/4"	6"	70-75	78	30
	321	S32100	3/8"	7"	75	82	30
	347	S34700	3/8"	9"	75	87	30
	N-50 (XM-19)	S20910	1/2"	5 <sup>1</sup> /2"	20-35	96	55
	N-60	S21800	3/8"	8"	20-35	92	50
	A-286 AMS 5737	S66286	5/16"	5"	30-35	31 HRC	95
	A-286 AMS 5732	S66286	<sup>5</sup> /16''	4"	30-35	32 HRC	85
	<b>T</b> ( <u></u>						
Martensitic Stainless Steel	410	S41000	16"	6"	75	95	42
	416 Annealed	S41600	1/2"	4"	170	27 HRC	49
	416R	511000	1"	1 3/4"	170	26-32 HRC	17
	420	S42000	3/4"	4"	65	95 HRC	50
	440C	S44004	9/16"	6"	65	56 HRC	50
	446	S44600	1"	3"	75	85	40
						I	1
recipitation	17-4 Annealed	S17400	<sup>3</sup> /16''	12"	75	34 HRC	
Hardenable Alloys	17-4 H1150	S17400	1/2"	6"	80	33 HRC	125
	15-5 Annealed	S15500	7/ <sub>16</sub> ''	8"	75	33 HRC	
	13-8 Annealed	S13800	3/8"	4 <sup>1</sup> /2"	75	44 HRC	
Nickel Alloys	RA330®	N08330	1/8"	6"	35-45	86	30
	600	N06600	0.256"	6"	25-35	85	35
	625	N06625	3/8"	10"	20	24 HRC	60
	718 AMS 5662	N07718	3/8"	10"	20-40	37 HRC	70
	718 AMS 5663 (Aged)	N07718	1/2"	31/2"	20	43 HRC	175
	X	N06002	1/4"	61/2"	20	96	
	AL-6XN®	N08367	3/8"	8"	65-75	90	45
	±		1	<u> </u>		1	<u> </u>
uplex	ZERON® 100	S32760	1/2"	11.811"	30-65	28 HRC	80
Stainless Steel	2205	S31803, S32205	3/8"	12"	50-65	25 HRC	65
	2507	S32750	3/4"	8"	30-65	28 HRC	80
	± 1						
Titanium	6-4	R56400	1/4"	10"	30-40	-	120
	▲ L					1	
Precision	17-4 Annealed	S17400	1/8"	] 1/4"	75	34 HRC	

 $^{\rm 1}$  Stock sizes may vary. Please contact onlinesales@rolledalloys.com for a complete listing.

<sup>2</sup> 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**

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## PROCESSING

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#### **QUALITY APPROVALS**

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



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