

BAR PROGRAM

NORTH AMERICAN VERSION • IMPERIAL UNITS

Marcegaglia Stainless Richburg

Items shown are produced regularly for quick delivery from stock or within competitive industry lead-times. Please call a Marcegaglia representative for availability.

ROUND BARS										
	303	304 L	304 H	316 L	317 L	310	321	347	253 MA	416
¼-1 CDA	P	P	P	P	P		x	x		
⅝-1 CFA	P	P	P	P	P	x	x	x	x	x
>1-3¼ CFA	P	P	P	P	P	x	x	x	x	x
2-3½ HRART	P	P	P	P	P	x	x	x	x	x
>3½-7 HRART	P	P	P	P	P	x	x	x		x
>7-10 HRART	P	P		P						
>10-15 HRART	P	P		P						

	440 C	17-4	15-5ESR	15-5VAR	LDX 2101®	2205 +2	2507	304 HN	N60	XM-19	XM-25
¼-1 CDA											
⅝-1 CFA		P	x	x	x				x ^A		x ^A
>1-3¼ CFA	x	P	x	x	x	x	x	x ^B	x ^B	x ^B	x
2-3½ HRART	x	P	x	x	x	x	x	x ^B	x	x ^B	x
>3½-7 HRART		P				x	x				x
>7-10 HRART											
>10-15 HRART											

P: PRODEC® Improved Machinability
A: Alloy only available down to ¼"

CDA: Cold Drawn Annealed
B: HS available from 1⅜" to 3½"

CFA: Cold Finished Annealed

HRART: Hot Rolled Annealed Rough Turned

HEXAGONAL					
	303	304 L	316 L	321	347
¼"-1"	x	x	x	x	x
1"-1½"	x	x	x		
2½"	x	x	x		

LENGTH CAPABILITIES		
¼"-1	CDA	12' STD, 16' Max
½"-3¼"	CFA	12' STD, 24' Max
2"-3½"	HRART	12' STD, 24' Max
>3½"-7"	HRART	12' STD, 30' Max
>7"-15"	HRART	Inquire

OTHER VALUE FEATURES OF OUR BAR PROGRAM:

PRODEC®: For improved machinability 303, 304L, 316L and 17-4 P come standard as Prodec® Quality Material.

Complete program: Standard and special grades, in sizes from ¼" to 15" round and ⅜" to 2½" hexagonal.

Quality: Marcegaglia Bar is ISO 9001/AS9100/PED approved. Each bundle is "XRF" grade assured.

Conditions: 17-4 & 15-5 aged conditions, strain hardened austenitics, and Q&T martensitics available upon inquiry.

DFARS Compliant: All material produced is 225.7002-3B1 & 252.225.7014 compliant.

Polished surface: CD and CF products ⅞" to 3" (including hexagonal to 1").

Centerless Grinding: ¼" - to ½" -standard tolerance available in ¼" to 4" diameters.

Eddy Current testing: Standard for 303 and 416 grades. Available upon request in other grades.

Chamfering: Both ends in drawn products and one end for CF products through 1⅞".

Defense: Offering various grades to support the firearms industry.

SPECIFICATIONS

Grade	UNS	ASTM	ASME	Federal	AMS
303	S30300	A 582	NA	NA	5640
304 / 304L	S30400 / S30403	A 276, A 479	SA-479, SA-276	QQS 763F	5639, 5647, QQS 763
316 / 316L	S31600 / S31603	A 276, A 479	SA-479, SA-276	QQS 763F	5648, 5653, QQS 763
317 / 317L	S31700 / S31703	A 276, A 479	SA-479, SA-276	QQS 763F	QQS 763
309, 309S	S30900 / S30909 / S30908	A 276, A 479	SA-479, SA-276		5650
310, 310S	S31000 / S31009 / S31008	A 276, A 479	SA-479, SA-276		5651
321 / 321H	S32100 / S32109	A 276, A 479	SA-479, SA-276		5645
347 / 347H	S34700 / S34709	A 276, A 479	SA-479, SA-276		5646
253 MA	S30815	A 276, A 479	SA-479, SA-276		
410	S41000	A 276, A 479	SA-479, SA-276	QQS 763F	5612, 5613, QQS 763
416	S41600	A 582			5610
440C	S44004	A 276		QQS 763F	QQS 763, 5630, 5880
17-4	S17400	A 564	SA-564		5643
15-5 ESR/VAR	S15500	A 564	SA-564		5659
EN lean duplex 1.4162	S32101	A 276, A 479	SA-479, SA-276		
2205	S31803 / S32205	A 276, A 479	SA-479, SA-276		
2507	S32750	A 276, A 479	SA-479, SA-276		
304HN	S30452				
N60	S21800	A 276, A 479			5848
XM-19	S20910	A 276, A 479	SA-479, SA-276		

TOLERANCES - STAINLESS STEEL BAR

Conforms to ASTM A 484						
Round Bar/Cold Finished		Round Bar/Hot Rolled and Rough Turned			Square Bar and Hexagons/Cold Finished	
Size	Tolerances	Size	Tolerances	Out of Round	Size	Tolerances
Under 5/16"	±0.001	Over 2" to 2 1/2"	+1/32-0	0.023	Under 5/16"	+0.000-0.002
5/16" up to but excluding 1/2"	±0.0015	Over 2 1/2" to 3 1/2"	+3/64-0	0.035	Over 5/16" to under 1/2"	+0.000-0.003
1/2" up to but excluding 1"	±0.002	Over 3 1/2" to 4 1/2"	+1/16-0	0.046	1/2" up to and including 1"	+0.000-0.004
1" up to but excluding 1 1/2"	±0.0025	Over 4 1/2" to 5 1/2"	+5/64-0	0.058	Over 1" up to and including 2"	+0.000-0.006
1 1/2" up to and including 3 1/4"	±0.003	Over 5 1/2" to 6 1/2"	+1/8-0	0.070	Over 2" up to and including 3"	+0.000-0.008
Over 3 1/4" up to and including 4 1/2"	±0.005	Over 6 1/2" to 8"	+5/32-0	0.085	Over 3"	+0.000-0.010
Over 4 1/2" up to and including 6"	±0.008	Over 8" to 12"	+3/16-0	0.094		

STRAIGHTNESS TOLERANCES FOR MACHINE-STRAIGHTENED BAR

Rough Turned	Cold Finished
1/8" in any 5'	1/16" in any 5'
but may not exceed 1/8" x $\frac{\text{length in feet}}{5}$	but may not exceed 1/16" x $\frac{\text{length in feet}}{5}$

WEIGHT FORMULAS FOR STEEL

Weight estimates per linear foot
Rounds= $D^2 \times 2.6729$
Hexagonals= $D^2 \times 2.9473$

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