

# Fidelity Stainless



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## 303 Square Bar

### MATERIAL SPECIFICATIONS

PREPARED BY: M POPE

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<b>MATERIAL</b>	STAINLESS SQUARE BAR 303 R/L 12-14'	COLD DRAWN
<b>SPECIFICATIONS</b>	ALL SPECIFICATIONS WITH LATEST YEAR REVISIONS AISI 303 UNS# S30300  ASTM A314, ASTM A320 B8F CL1, ASTM A388, ASTM A484, ASTM A582 AMS 5640 TYPE 1, QQ-S-764B AMD2 COND A, MIL-S-862 B, EN 10204-3.1	

<u>CHEMICAL ANALYSIS</u>			<u>MECHANICAL PROPERTIES</u>		
Carbon (C)	.15	aim .02-.08	Tensile Strength (U.T.S.)	up to 1/2" over 1/2"	85/125 KSI 75 Ksi
Chromium (Cr)	17.00/19.00		Yield Strength (Yield)		25 Ksi
Copper (Cu)	.75		Elongation (Ei. or Elong.)		30%
Manganses (Mn)	2.00		Reduction of Area (R.A. or Red.)		40%
Molybdenum (Mo)	.75		Hardness (RB,RC,or BHN)		140/255 BHN Aim 160-180
Nickel (Ni)	8.00/10.00				
Others (if any)		report content			
Phosphorous (P)	.20				
Silicon (Si)	1.00				
Sulfur (S)	.25 MIN	aim .30-.40			

All singular chemistry values are  
MAXIMUM unless otherwise noted

All mechanical properties are  
MINIMUM unless otherwise noted

### OTHER TEST(S) AND/OR REQUIREMENTS

MACRO ETCH TEST & MICRO STRUCTURE TO BE SATISFACTORY  
MERCURY FREE CONTAMINATION STATEMENT  
FREE FROM RADIOACTIVE CONTAMINATION  
NO WELDING OR WELD REPAIR STATEMENT  
EDDY CURRENT TESTED  
REPORT GRAIN SIZE PER ASTM E112-96  
SOLUTION ANNEALED CONDITION A, TEMP. 1040C/1900F MINIMUM AND WATER QUENCHED  
FINISHED CONDITION, MELT AND HOT WORKING PRACTICES TO BE REPORTED.  
GRADE AND HEAT NUMBERS MUST BE METAL STAMPED AT BOTH ENDS ON SIZES 1" DIA. AND LARGER  
COLOUR CODE BLUE  
BUNDLE WEIGHT - 2200 LBS MAXIMUM

### IMPORTANT:

ORIGINAL CERTIFICATES OF CHEMICAL & PHYSICAL ANALYSIS REQUIRED TWO (2) WEEKS BEFORE SHIPMENT ARRIVES  
ALL TEST REPORTS MUST STATE COUNTRY OF ORIGIN  
TEST REPORTS MUST HAVE THE SIGNATURE NAME AND TITLE PRINTED  
ALL TEST REPORTS MUST BE SIGNED BY AUTHORIZED PERSON