

Fidelity Stainless



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303 Round Bar 1 To 4 Inch

MATERIAL SPECIFICATIONS

PREPARED BY: M POPE

REVISION DATE: 05/25/23

MATERIAL	STAINLESS ROUND BAR 303 1" TO 4" INCLUSIVE	SMOOTH TURNED 12-14' R/L	50 RMS
SPECIFICATIONS	ALL SPECIFICATIONS WITH LATEST YEAR REVISIONS AISI 303 UNS# S30300 DIN# WNR 1.4305 ASTM A314, ASTM A320 B8F CL1, ASTM A388, ASTM A484, ASTM A582 ASME SA 320 B8F CL1, AMS 5640 TYPE 1, QQ-S-764B AMD2 COND. A MIL-S-862 B, EN 10088-3, EN 10204-3.1		

<u>CHEMICAL ANALYSIS</u>			<u>MECHANICAL PROPERTIES</u>	
Carbon (C)	.15	aim .02-.08	Tensile Strength (U.T.S.)	75 KSI
Chromium (Cr)	17.00/19.00		Yield Strength (Yield)	25 KSI
Cobalt (Co)		report content	Elongation (Ei. or Elong.)	30%
Copper (Cu)	.75		Reduction of Area (R.A. or Red.)	40%
Manganes (Mn)	2.00		Hardness (RB,RC,or BHN)	140/255 BHN
Molybdenum (Mo)	.75			Aim 160-180
Nickel (Ni)	8.00/10.00			
Nitrogen (N)		report content		
Phosphorous (P)	.20			
Silicon (Si)	1.00			
Sulfur (S)	.25 min	aim .32-.35		

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 AS PER ASTM E 112-96
 SOLUTION ANNEALED CONDITION A. TEMP. 1040C/1900F MINIMUM AND WATER QUENCHED
 HEAT TREATMENT TEMPERATURE AND TIME (HOURS SOAKED) MUST BE REPORTED
 FINISHED CONDITION (RMS 50 MAX) AS PER ASTM A484, MELT AND HOT WORKING PRACTICES TO BE REPORTED
 GRADE AND HEAT NUMBER 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