

Fidelity Stainless



1303 North Service Road East, Unit #1, Oakville, Ontario, L6H 1A7

Tel: (905)842-1700

Fax: (905)842-5802

303 Round Bar Under 1 Inch

MATERIAL SPECIFICATIONS

PREPARED BY: H POPE

REVISION DATE: 03/15/13

MATERIAL	STAINLESS ROUND BAR 303 1/8" TO 15/16" 12-14' R/L			SMOOTH TURNED	50 RMS
SPECIFICATIONS	ALL SPECIFICATIONS WITH LATEST YEAR REVISIONS AISI 303 UNS# S30300 DIN# WNR 1.4305 ASTM A314, ASTM A320 B8F CL1, 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				
CHEMICAL ANALYSIS			MECHANICAL PROPERTIES		
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
Cobalt (Co)		report content	Elongation (Ei. or Elong.)		30%
Copper (Cu)	.75		Reduction of Area (R.A. or Red.)		40%
Manganeses (Mn)	2.00		Hardness (RB,RC,or BHN)		140/255 Aim 160-180
Molybdenum (Mo)	.75				
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 OF BAR 1" AND OVER
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 AUTHORIZED PERSON