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303 Round Bar Under 1 Inch

MATERIAL SPECIFICATIONS PREPARED BY: M POPE REVISION DATE: 05/25/23

MATERIAL		TAINLESS ROUND BAR 3		TURNED	50 RMS	
	1/3	8" TO 15/16" 12-14	1' R/L			
SPCIFICATIONS	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					
CHEMCIAL ANALYSIS MECHAN				NICAL PROPERTIES		
Carbon (C)	.15	aim .0208	Tensile Strength	up to 1/2"	85/125 KSI	
Chromium (Cr)	17.00/19.00		(U.T.S.)	over 1/2"	75 KSI	
Cobalt (Co)		report content	Yield Strength		25 KSI	
Copper (Cu)	.75		(Yield)			
Manganses (Mn)	2.00		Elongation		30%	
Molybdenum (Mo)	.75		(Ei. or Elong.)			
Nickel (Ni)	8.00/10.00		Reduction of Area		40%	
Nitrogen (N)		report content	(R.A. or Red.)			
Phosphorous (P)	.20		Hardness		140/255	
Silicon (Si)	1.00		(RB,RC,or BHN)		Aim 160-180	
Sulfur (S)	.25 min	aim .3235				

All singular chemisty values are MAXIMUM unless otherwise noted All mechanical properties are <u>MINIMUM</u> 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 ANAYLSIS 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