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303 Square Bar

MATERIAL SPECIFICATIONS

PREPARED BY: H POPE

REVISION DATE: 03/15/13

MATERIAL	STAINLESS SQUARE BAR 303 R/L 12-14'	COLD DRAWN
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SPECIFICATIONS	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
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<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%
Manganes (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