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304/L Square Bar

STAINLESS SQUARE BAR 304/304L

MATERIAL SPECIFICATIONS

MATERIAL

PREPARED BY: M. POPE REVISION DATE: 05/25/23

COLD DRAWN

	R/L 12-14'	DUEL CERTIFIED		
SPECIFICATIONS	ALL SPECIFICATIONS WITH LATEST YEAR REV	ISIONS		
	VICE 3UV 3UVE TIME# 63UVUU/63UVU3			

ASTM A182, ASTM A193 B8 CL1, ASTM A262 PRACTIC E, ASTM A 276,	
ASTM A314, ASTM A320 B8 CL1, ASTM A338, ASTM A479, ASTM A484	
ASME SA182, ASME SA193 B8 CL1, ASME SA 320 B8 CL1, ASME SA479	
AMS 5639, AMS 5647, QQ-S-763F COND A, MIL-S-862 B,	
NACE MR 0175, NACE MR 0103, EN 10204-3.1	

CHEMICAL ANALYSIS			MECHANICAL PROPERTIES		
Carbon (C) Chromium (Cr) Cobalt (Co)	.03 18.00/20.00 1.00	aim .10 max aim .75 max	Tensile Strength (U.T.S.) Yield Strength (Yield)	up to 1/2" over 1/2" under 1/2" over 1/2"	90/125 KSI 75 KSI 45 KSI 30 KSI
Copper (Cu) Manganses (Mn)	2.00	aim 1.50-1.75	Elongation	under 1/2"	30%
Molybdenum (Mo) Nickel (Ni)	1.00 8.00/12.00	aim .75 max	(Ei. or Elong.) Reduction of Area	over 1/2" under 1/2"	40% 40%
Nitrogen (N) Phosphorous (P)	.10 .045		(R.A. or Red.) Hardness	over 1/2"	50% 140/241 Max BHN
Silicon (Si) Sulfur (S)	1.00 .03	aim .0203	(RB,RC,or BHN)		aim 170-223

All singular chemistry values are MAXIMUM unless otherwise noted All mechanical properties are MINIMUM unless otherwise noted

OTHER TEST(S) AND/OR REQUIREMENTS

INTERGRANULAR CORROSION TEST (FREE FROM CONTINUOUS CARBIDE)

AS PER ASTM A262 PRACTICE E

MACRO ETCH TEST & MICRO STRUCTURE TO BE SATISFACTORY

MERCURY FREE CONTAMINATION STATEMENT

FREE FROM RADIOACTIVE CONTAMINIATION

NO WELDING OR WELD REPAIR STATEMENT

REPORT GRAIN SIZE PER ASTM E112-96

SOLUTION ANNEALED CONDITION A PER ASTM A479 AT 1040C/1900F MINIMUM AND WATER QUENCHED

FINISHED CONDITION. MELT AND HOT WORKING PRACTICES MUST BE REPORTED

GRADE AND HEAT NUMBER MUST BE METAL STAMPED AT BOTH ENDS ON SIZES 1" DIA AND LARGER

COLOUR CODE RED

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