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304/L Hexagon Bar

MATERIAL SPECIFICATION	NS PREPARD BY: M POPE REVISION DATE: 05/25/23			
MATERIAL	STAINLESS HEXAGON BAR 304/304L COLD DRAWN R/L 12-14' DUAL CERTIFIED			
SPECIFICATIONS	ALL SPECIFICATIONS WITH LATEST YEAR REVISIONS AISI 304,304L UNS# S30400/S30403,			
	ASTM A182, ASTM A193 B8 CL1, ASTM A262 PRACTICE E, ASTM A276 ASTM A314, ASTM A320 B8 CL1, ASTM A388, ASTM A479, ASTM A484 ASME SA182, ASME SA193 B8 CL1, ASME SA320 B8 CL1, ASME SA479, AMS 5639, AMS 5647, QQ-S-763F COND A, MIL-S-862 B NACE MR 0175, NACE MR0103, EN 10204-3.1			

CHEMICAL ANALYSIS			MECHANICAL PROPERTIES		
Carbon (C)	.03		Tensile Strength		75 KSI
Chromium (Cr)	18.00/20.00		(U.T.S.)		
Cobalt (Co)		aim .10 max	Yield Strength		30KSI
Copper (Cu)	1.00	aim .75 max	(Yield)		
Manganses (Mn)	2.00	aim 1.50-1.75	Elongation		40%
Molybdenum (Mo)	1.00	aim .75 max	(Ei. or Elong.)		
Nickel (Ni)	8.00/10.50		Reduction of Area		50%
Nitrogen (N)	.10		(R.A. or Red.)		
Phosphorous (P)	.045		Hardness	140/241	BHN MAX
Silicon (Si)	1.00		(RB,RC,or BHN)	aim 170-223	
Sulfur (S)	.03	aim .0203			
All singular chemistry values are			All mechanical properties are		

MAXIMUM unless otherwise noted

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 CONTAMINATION NO WELD OR WELD REPAIR REPORT GRAIN SIZE PER ASTM E112-96 SOLUTION ANNEALED CONDITION A PER ASTM A479 AT 1040C/1900F MINIMUM AND WATER QUENCHED FINISHED CONDITION, HEAT TREATMENT AND MELTING PROCESS MUST BE REPORTED HEAT NUMBERS 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.