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PREPARD BY: H.POPE

304/L "Mill-Edged" Flat Bar

MATERIAL SPECIFICATIONS

STAINLESS FLAT BAR 304/304L HOT ROLLED, ANNEALED AND PICKLED
12-14' R/L DUAL CERTIFIED

SPECIFICATIONS

ALL SPECIFICATIONS WITH LATEST YEAR REVISIONS
AISI 304,304L UNS# S30400/S30403,

ASTM A182, ASTM A262 PRACTICE E, ASTM A276, ASTM A314, ASTM A479, ASTM A484,
ASME SA 182, ASME SA 479, ASME SA484, AMS 5639, AMS 5647,
QQ-S-763F COND. A, EN 10204-3.1

CHEMICAL ANALYSIS		en	MECHANICAL PROPERTIES	MECHANICAL PROPERTIES	
Carbon (C)	.03	1/1	Tensile Strength	75 KSI	
Chromium (Cr)	18.00/20.00		(U.T.S.)		
Cobalt (Co)		aim .10 max	Yield Strength	30 KSI	
Copper (Cu)	1.00	aim .75 max	(Yield)		
Manganses (Mn)	2.00		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,HB)	(Aim 170-233)	
Sulfur (S)	.03	aim .0203			

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

REVISION DATE: 03/15/2013

OTHER TEST(S) AND/OR REQUIREMENTS

INTERGRANULAR CORROSION TEST (FREE FROM CONTINUOUS CARBIDE)

AS PER ASTM A262-01 PRACTICE E

MACRO ETCH TEST & MICRO STRUCTURE TO BE SATISFACTORY AS PER QQS-763

MERCURY FREE CONTAMINATION STATEMENT

FREE FROM RADIOACTIVE CONTAMINATION

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.

HEAT TREATMENT: TEMPERATURE, TIME (HOURS SOAKED) AND COOLING MUST BE REPORTED.

FINISHED CONDITION, MELT AND HOT WORKING PRACTICES TO BE REPORTED.

GRADE, SIZE AND HEAT NUMBERS MUST BE METAL STAMPED AT BOTH ENDS ON SIZES 1" DIA. AND LARGER COLOUR CODE RED

BUNDLE WEIGHT - 2200 LBS MAXIMUM. ONE HEAT AND SIZE PER BUNDLE.

<u>IMPORTANT:</u>

ORIGINAL CERTIFICATES OF CHEMICAL & PHYSICAL ANALYSIS REQUIRED TWO (2) WEEKS BEFORE SHIPMENT ARRIVES

ALL TEST REPORTS MUST STATE COUNTRY OF ORIGIN

ALL TEST REPORTS MUST HAVE THE SIGNATURE NAME AND TITLE PRINTED.

ALL TEST REPORTS MUST BE SIGNED BY AUTHORIZED PERSON.