

1303 North Service Road East, Unit #1, Oakville, ON L6H 1A7 Phone: (905)842-1700;Fax: (905)842-5802

316/L "MII-Edged" Flat Bar

MATERIAL SPECIFICATIONS

PREPARD BY: H. POPE REVISION DATE: 03/15/13

MATERIAL	STAINLESS FLAT BAR 316/316L	HOT ROLLED, ANNEALED AND PICKLED		
	R/L 12'-14'	DUAL CERTIFIED		
SPCIFICATIONS	ALL SPECIFICATIONS WITH LATEST YEAR REVISIONS			
	AISI 316,316L, UNS S316/S31603			
	ASTM A182, ASTM A262 PRACTICE E, ASTM A276, ASTM A314, ASTM A479, ASTM A484 ASME SA182, ASME SA479, ASME SA484, AMS 5648, AMS 5653, QQS-763F COND. A, EN 10204-3.1			
	7.110 00-10, 7.110 0000, QQ0 7001	0011B.71, E11 1020+ 0.1		

CHEMCIAL ANALYSIS		MECHANICAL PROPERTIES	MECHANICAL PROPERTIES	
Carbon ©	.03		Tensile Strength	75 KSI
Chromium (Cr)	16.00/18.00	د ا	(U.T.S.)	70 101
Cobalt (Co)		aim .10 max	Yield Strength	30KSI
Copper (Cu)	1.000	aim .75 max	(Yield)	
Manganses (Mn)	2.000		Elongation	40%
Molybdenum (Mo)	2.00/3.00		(Ei. or Elong.)	
Nickel (Ni)	10.00/14.00		Reduction of Area	50%
Nitrogen (N)	.10		(R.A. or Red.)	
Phosphorous (P)	.045		Hardness	140/223 BHN
Silicon (Si)	1.00		(RB,RC,or BHN)	(Aim 150-180)
Sulfur (S)	.03	aim .0203		

All singular chemisty 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 A262-01 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 GREEN

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

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 BY AUTHORIZED PERSON