

Fidelity Stainless



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316/L "Sheared" Flat Bar

MATERIAL SPECIFICATIONS

PREPARED BY: M. POPE

REVISION DATE: 05/25/23

MATERIAL	STAINLESS FLAT BAR 316/316L	SHEARED EDGE DUAL CERTIFIED
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SPECIFICATIONS	ALL SPECIFICATIONS WITH LATEST YEAR REVISIONS AISI 316,316L, UNS S316/S31603 ASTM A240, ASTM A480 ASME SA240, AMSE SA 480
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<u>CHEMICAL ANALYSIS</u>	<u>MECHANICAL PROPERTIES</u>
Carbon © .03	Tensile Strength 70 KSI (U.T.S.)
Chromium (Cr) 16.00/18.00	Yield Strength 25 KSI (Yield)
Copper (Cu) 2.000	Elongation 40% (Ei. or Elong.)
Manganses (Mn) 2.00/3.00	Reduction of Area not required (R.A. or Red.)
Nickel (Ni) 10.00/14.00	Hardness 217 BHN max (RB,RC,or BHN,HB)
Nitrogen (N) .10	
Other (If Any)	
Phosphorous (P) .045	
Silicon (Si) .75	
Sulfur (S) .03	

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)
MERCURY FREE CONTAMINATION STATEMENT
SOLUTION ANNEALED CONDITION A, AT 1040C/1900F MINIMUM AND WATER QUENCHED
HEAT TREATMENT AND FINISHED CONDITION MUST BE REPORTED
BAR MUST BE LINE MARKED WITH SIZE, GRADE, AND HEAT NUMBER.
COLOUR CODE GREEN
BUNDLE WEIGHT - 2200 LBS MAXIMUM

IMPORTANT:

ORIGINAL CERTIFICATES OF CHEMICAL & PHYSICAL ANALYSIS REQUIRED BEFORE SHIPMENT ARRIVES.
TEST REPORT MUST SHOW CUT SIZES (inches) PER HEAT NUMBER.
ALL TEST REPORTS MUST STATE MILL NAME AND COUNTRY OF ORIGIN.
TEST REPORTS MUST HAVE THE SIGNATURE NAME AND TITLE PRINTED
ALL TEST REPORTS MUST BE SIGNED BY AUTHORIZED PERSON.