

Fidelity Stainless



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304/L "Sheared" Flat Bar

MATERIAL SPECIFICATIONS

PREPARED BY: M POPE

REVISION DATE:05/25/23

MATERIAL	STAINLESS FLAT BAR 304/304L	SHEARED EDGE DUAL CERTIFIED
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SPECIFICATIONS	ALL SPECIFICATIONS WITH LATEST YEAR REVISIONS AISI 304,304L UNS# S30400/S30403, ASTM A240, ASTM A480 ASME SA240, ASME SA480
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<u>CHEMICAL ANALYSIS</u>	<u>MECHANICAL PROPERTIES</u>
Carbon (C) .03	Tensile Strength 70 KSI (U.T.S.)
Chromium (Cr) 18.00/20.00	Yield Strength 25 KSI (Yield)
Copper (Cu)	Elongation 40% (Ei. or Elong.)
Manganses (Mn) 2.00	Reduction of Area not required (R.A. or Red.)
Molybdenum (Mo)	Hardness 201 BHN max (RB,RC,or BHN,HB) 92 RB max
Nickel (Ni) 8.00/12.00	
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 RED
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