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316/L Round Bar Over 4 Inch

MATERIAL SPECIFICATIONS	PRE	REVISION DATE: 05/25/23	
MATERIAL	STAINLESS ROUND BAR 316/316L 4 1/8" TO 20" 12-14' R/L	ROUGH TURNED DUAL CERTIFIED	RMS 125-250
SPCIFICATIONS	ALL SPECIFICATIONS WITH LATES AISI 316,316L, UNS S316/S31603, ASTM A182, ASTMA193 B8M CL1, ASTM A314, ASTM A320 B8M CL1, ASME SA182, ASME SA193 B8M CL AMS 5648, AMS 5653, SAE-AMS-S NACE MR 0175, NACE MR 0103, EN	DIN# WNR 1.4401/1.4404 ASTM A262 PRACTICE E, AST ASTM A388, ASTM A479, AS L1, ASME SA320 B8M CL1, ASI S-7720A, QQ-S-763F COND A,	TM A484 ME SA479 MIL-S-862 B

CHEMCIAL ANALYSIS			MECHANICAL PROPERTIES	
Carbon © Chromium (Cr)	.03 16.00/18.00		Tensile Strength (U.T.S.)	75 KSI
Cobalt (Co) Copper (Cu)	1.00	aim .20 max aim .75 max	Yield Strength (Yield)	30 KSI
Manganses (Mn) Molybdenum (Mo)	2.00 2.00/3.00		(Field) Elongation (Ei. or Elong.)	40%
Nickel (Ni) Nitrogen (N)	10.00/14.00 .10		Reduction of Area (R.A. or Red.)	50%
Phosphorous (P)	.045		Hardness	140/223 Max BHN
Silicon (Si)	1.00		(RB,RC,or BHN)	AIM 150-180
Sulfur (S)	.03	aim .0203		

All singular chemisty values are <u>MAXIMUM</u> unless otherwise noted

All mechanical properties are <u>MINIMUM</u> unless otherwise noted

OTHER TEST(S) AND/OR REQUIREMENTS

INTERGRANULAR CORROSION TEST (FREE FROM CONTINUOUS CARBIDE) AS PER ASTM A262-02 PRACTICE E MACRO ETCH TEST & MICRO STRUCTURE TO BE SATISFACTORY ULTRASONIC TESTED AS PER ASTM A388 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 AND TIME (HOURS SOAKED) MUST BE REPORTED FINISHED CONDITION, MELT AND HOT WORKING PRACTICES (FORGED OR ROLLED) TO BE REPORTED ROUGH TURNED BAR TO 8" 125 RMS MAXIMUM, OVER 8" 250 RMS MAXIMUM FINISH AS PER ASTM A484 GRADE AND HEAT NUMBER MUST BE METAL STAMPED AT BOTH ENDS ON SIZES 1" DIA. AND LARGER COLOUR CODE GREEN

BUNDLE WEIGHT - 2200 LBS MAXIMUM

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