



855 Steeles Avenue East, Milton, Ontario L9T 5H3  
 Phone: (289)-851-1076 Fax: (289)-851-1079

**410 Round Bar**

**MATERIAL SPECIFICATIONS**

PREPARED BY: M POPE

REVISION DATE: 05/25/23

<b>MATERIAL</b>	STAINLESS ROUND BAR 410 R/L 12-14'	SMOOTH TURNED	RMS 50
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<b>SPECIFICATIONS</b>	ALL SPECIFICATIONS WITH LATEST YEAR REVISIONS AISI 410 UNS# S41000  ASTM A276, ASTM A479, ASTM A484, ASME SA479, AMS-QQ-S-763 COND A, AMS 5613, EN 10204-3.1
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<b><u>CHEMICAL ANALYSIS</u></b>	<b><u>MECHANICAL PROPERTIES</u></b>
Carbon ( C ) .15	Tensile Strength 70/115 KSI (U.T.S.)
Chromium (Cr) 11.50-13.50	Yield Strength 40 KSI (Yield)
Copper (Cu) .50	Elongation 20% (Ei. or Elong.)
Manganeses (Mn) 1.00	Reduction of Area 45% (R.A. or Red.)
Molybdenum (Mo) .50	Hardness 223 BHN MAX (RB,RC,or BHN)
Nickel (Ni) .75	
Nitrogen (N) .08	
Other (if any) report content	
Phosphorous (P) .04	
Silicon (Si) 1.00	
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**

MACRO ETCH TEST & MICRO STRUCTURE TO BE SATISFACTORY  
 MERCURY FREE CONTAMINATION STATEMENT  
 FREE FROM RADIOACTIVE CONTAMINATION  
 NO WELDING OR WELD REPAIR STATEMENT  
 SOLUTION ANNEALED CONDITION A. TEMP. 955C/1750F MINIMUM AND WATER QUENCHED  
 HEAT TREATMENT AND SOAK TIME MUST BE REPORTED.  
 FINISHED CONDITION RMS 50 MAX , MELT AND HOT WORKING PRACTICES TO BE REPORTED  
 GRADE AND HEAT NUMBER MUST BE METAL STAMPED AT BOTH ENDS ON SIZES 1" DIA. AND LARGER  
 COLOUR CODE GREY  
 BUNDLE WEIGHT - 2200 LBS MAXIMUM

**IMPORTANT:**

ORIGINAL CERTIFICATES OF CHEMICAL & PHYSICAL ANALYSIS 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