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17-4 Round Bar

MATERIAL SPECIFICATIONS PREPARED BY: M POPE REVISION DATE: 05/25/23

MATERIAL	STAINLESS ROUND BAR 17-4 PH	SOLUTION ANNEALED - NOT AGED			
		SIZES TO 3 3/4" SMOOTH TURNED			
	12-14' RANDOM LENGTHS	SIZES 4" AND OVER ROUGH TURNED			
SPCIFICATIONS	ALL SPECIFICATIONS WITH LATEST YEAR REVISIONS				
	UNS# S17400				
	ASTM A564 TYPE 630 CONDITION A, ASTM A484				
	ASME SA 564 TYPE 630				
	AMS 5643, AMS 2303, AMS 2315				
	AISI 630, EN 10204.3.1				
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CHEMCIAL ANALYSIS		MECHANICAL PR	ROPERTIES	TENSILE TEST	H900
Carbon (C)	.07	Tensile Strength		Tensile Strength	190 ksi
Chromium (Cr) Columbium + Tantalum	15.00/17.50 .15/.45	(U.T.S.) Yield Strength		(U.T.S.) Yield Strength	170 ksi
Copper (Cu) Manganses (Mn)	3.00/5.00 1.00	(Yield) Elongation		(Yield) Elongation	10%
Molybdenum (Mo) Nickel (Ni)	.50 3.00/5.00	(Ei. or Elong.) Reduction of Area		(Ei. or Elong.) Reduction of Area	40%
Phosphorous (P)	.04	(R.A. or Red.)	20 DO	(R.A. or Red.)	
Silicon (Si) Sulfur (S)	1.00 .03	Hardness (RC,or BHN,HB)	38 RC maximum 363 BHN maximum	Hardness (RC,or BHN,HB)	40 RC 388 HB

All singular chemisty values are MAXIMUM unless otherwise noted All mechanical properties are MINIMUM unless otherwise noted

All Tensile properties are MINIMUM unless otherwise noted

OTHER TEST(S) AND/OR REQUIREMENTS

MACRO ETCH TEST & MICRO STRUCTURE TO BE SATISFACTORY REPORT FERRITE CONTENT 5% MAXIMUM AS PER AMS 2315 REPORT BILLETS ARE ULTRASONIC INSPECTED FREE FROM MERCURY CONTAMINATION STATEMENT NO WELD OR WELD REPAIR STATEMENT SOLUTION ANNEALED CONDITION A, AT 1040C/1900F MINIMUM HEAT TREATMENT TEMPERATURE AND TIME MUST BE REPORTED FINISHED CONDITION, MELT AND HOT WORKING PRACTICES TO BE REPORTED MELTED TO REQUIREMENTS OF DFARS 252.225.7014 REPORT FREQUENCY & SEVERITY RATING AS PER AMS 2303

REPORT REDUCTION RATIO 4:1 MINIMUM

HEAT NUMBERS MUST BE METAL STAMPED ON SIZES OVER 1 " DIA.

COLOR CODE PURPLE

BUNDLE WEIGHT - 2500 LBS MAXIMUM

IMPORTANT:

ORIGINAL CERTIFICATES OF CHEMICAL & PHYSICAL ANAYLSIS REQUIRED PRIOR TO SHIPMENT ARRIVAL

ALL TEST REPORTS MUST STATE COUNTRY OF ORIGIN TEST REPORTS MUST HAVE SIGNATURE NAME AND TITLE PRINTED ALL TEST REPORTS MUST BE SIGNED BY AUTHORIZED PERSON