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17-4 Double H1150 Round Bar

MATERIAL SPECIFICATIONS

PREPARED BY: M POPE

REVISION DATE: 05/25/23

MATERIAL	STAINLESS ROUND BAR 17-4 H1150	DOUBLE AGED
	19-22' RANDOM LENGTHS	SIZE 1 TO 4" SMOOTH TURNED SIZES OVER 4 INCH - ROUGH TURNED

SPECIFICATIONS	ALL SPECIFICATIONS WITH LATEST YEAR REVISIONS UNS# S17400 ASTM A564 - TYPE 630 COND H1150 DOUBLE, ASTM A388, ASTM A484 ASME SA564 - TYPE 630, AMS 5643, AMS 2303, API 6A PSL LEVEL 3 NACE MR-0175 / ISO 15156, NACE MR 0103, EN 10204.3.1
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<u>CHEMICAL ANALYSIS</u>	<u>MECHANICAL PROPERTIES</u>	Condition: HH1150
Carbon (C) .07	Tensile Strength (U.T.S.)	135 KSI
Chromium (Cr) 15.00/17.50	Yield Strength (Yield)	105 KSI
Columbium + Tantalum(Cb+Ta) .15/.45	Elongation (Ei. or Elong.)	18%
Copper (Cu) 3.00/5.00	Reduction of Area (R.A. or Red.)	55%
Manganes (Mn) 1.00	Hardness RC or BHN	33 RC maximum 29/277 minimum
Molybdenum (Mo) 3.00/5.00	Impact Charpy-V min.	30 ft/lb at -75 Deg. F
Nickel (Ni) .04		
Phosphorous (P) 1.00		
Silicon (Si) .03		
Sulfur (S)		

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
 REPORT ULTRASONIC TESTED TO API 6A PSL 1-3 VOLUMETRIC NDE OF 7.4.2.3.15
 SEPARATE ULTRASONIC TEST REPORT REQUIRED
 CHARPY-V-NOTCH IMPACT TESTING TO 30 FT/LB AT -75 DEG. F
 FREE FROM MERCURY CONTAMINATION STATEMENT
 NO WELD OR WELD REPAIR STATEMENT
 HEAT TREATMENT AND AGED PROCESS MUST BE REPORTED
 FINISH CONDITION AND MELT PROCESS MUST BE REPORTED
 REPORT BOTH SURFACE AND MID RADIUS HARDNESS
 REPORT FREQUENCY & SEVERITY RATING AS PER AMS 2303
 GRADE AND HEAT NUMBER MUST BE METAL STAMPED AT BOTH ENDS ON SIZES 1" DIA. AND LARGER
 COLOR CODE ORANGE
 BUNDLE WEIGHT - 2200 LBS MAXIMUM

OTHER PROPERTIES

HARDNESS TESTED AT SURFACE AND MID-RADIUS
 BOTH TEST NOT TO EXCEED 33 RC MAXIMUM

AGED PROCESS

SOLUTION. ANNEALED 1900 DEG.F - 1 HR MIN.
 AIR COOL/OIL QUENCH TO BELOW 90 DEG F
 AGE @ 1150 F - 4 HRS, AIR COOL BELOW 90 F
 AGE @ 1150 F - 4 HRS, AIR COOL

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/POSITION PRINTED
 ALL TEST REPORTS MUST BE SIGNED BY AUTHORIZED PERSON.