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15-5 Type 1 VAR

MATERIAL SPECIFICATIONS

PREPARED BY: M. POPE REVISION DATE: 12/10/23

MATERIAL	STAINLESS ROUND BAR 15-5 HR - Solution Annealed Ground			
	12-14' R/L			
SPCIFICATIONS	ALL SPECIFICATIONS WITH LATEST YEAR REVISIONS			
	15-5PH (VAR) = DIN WL 1.4545.9			
	AMS 5659T TYPE 1 (VAR).			
	AMS-STD-2154E, TYPE 1, CLASS A.			

CHEMCIAL ANALYSIS		MECHANICAL PRO	MECHANICAL PROPERTIES		NON-METALLIC INCLUSIONS			
	MAX			MIN	AMS 2300)		
Carbon (C)	.07	Tensile Strength		190 KSI				
Silicon (Si)	1.0	(U.T.S.)				Severi	ty / I	Frequency
Manganses (Mn)	1.0	Yield Strength		170 KSI				
Phosphorous (P)	.03	(Yield)			Seat			
Sulfur (S)	0.015	Elongation		10%	Max	0.50	/	0.25
Nickel (Ni)	3.50 / 5.50	(Ei. or Elong.)						
Chrome (Cr)	14.0 / 15.50	Reduction of Area		35%				
Molybdenum (Mo)	.50	(R.A. or Red.)						
Copper (Cu)	2.50 / 4.50	Hardness	1/2 R	363 HBW - MAX				
Niobium (Nb)	0.15 / 0.45		Ferrite L	2% - MAX				

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

OTHER TEST(S) AND/OR REQUIREMENTS

SOLTION TREATMENT 1900 + / - 25 DEGREE FAHRENHEIT FOR MIN 30 MINUTES/INCH

MECHANICAL PROPERTIES TESTED AS PER H900 CONDITION

ULTRASONIC TESTED AS PER AMS-STD-2154E, TYPE 1, CLASS A

MACRO ETCH B / MACRO ETCH T TO ASTM A604

MATERIAL IS FREE FROM KNOWN CONTENT WITH MERCURY AND RADIUM

MATERIAL IS FREE FROM WELDS OR WELDING REPAIRS

MATERIAL IS FREE FROM RESIDUEL RADIOACTIVITY

MATERIAL IS DECARBURIZATION FREE

GRADE AND HEAT NUMBERS MUST BE METAL STAMPED AT BOTH ENDS ON SIZES 1" DIA. AND LARGER

COLOUR CODE WHITE

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