



**Wolverine Tube, Inc**  
 2100 Market Street  
 Decatur, AL 35601  
 800-633-3972

**CERTIFIED INSPECTION REPORT FOR  
 EXTRUDED PRODUCTS**

	OUR ORDER NUMBER 19988-1	DIE NUMBER WS10327	DATE OF SHIPMENT 2/26/2023	
	CUSTOMER PO 608489- LA	ALLOY 6061	TEMPER T6511	SALESMAN House
MANIFEST NUMBER 39027	CUSTOMER PART NUMBER 2434854	DESCRIPTION 1/8 x 2 Flat Bar		

*We hereby certify that the material covered by this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.*

Tickets:  
199450

Application Specifications: ASTM B221-20

*Donna Hays*

Quality Assurance  
Wolverine Tube Inc.

**Mechanical Properties**

Order #-	Item #-	Lot #	Cast Number	Alloy	Alloy Type	Test No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
19988-1-1/A/11			56678	6061	P	1	02/25/23	40.7	37.8	10%
19988-1-1/A/11			56678	6061	P	2	02/25/23	41.0	38.2	10%
19988-1-STOCK			56678	6061	P	1	02/25/23	40.7	37.8	10%
19988-1-STOCK			56678	6061	P	2	02/25/23	41.0	38.2	10%

**Chemical Limits**

	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Each	Total
ALLOY 6061 TYPE P																				
Minimum	0.40	0.14	0.15	0.00	0.8	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.15
Maximum	0.80	0.40	0.29	0.15	1.2	0.35	0.00	0.25	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Density:	0.098 g/cm3																			

**Chemical Composition**

Cast Number	Alloy	Type	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
56678	6061	P	0.63	0.24	0.22	0.04	0.8	0.04	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	REM 0.00

Note: The cast #'s for all lot numbers ending in /12, /13, etc are the same for lot #'s ending in /11. The numbers after the slash denote a different heat treat oven load.

Country of Origin: U.S.A