# SPECIFICATION SHEET





## **Applications**

- Copper based filler metal that contains 3% Silicon and trace amounts of manganese, tin and zinc.
- Best known for welding plain or galvanized sheet metal
- Weld deposits demonstrate high strength, excellent corrosion resistance and good weld-ability.
- Used primarily for oxyacetylene welding of copper, copper-silicon and copper-zinc metals to themselves and/or steel.
- Can be used for surfacing areas that are subject to corrosion

### **Diameters & Packages**

	-			-	-				
Dia.	2	10	25	30	33	440	500	36″	36" tig
	lb	lb	lb	lb	lb	lb	lb	elect	rod
								rode	
0.023"	~	~	~						
0.025"	~	~							
0.030"	~	~			~				
0.035"	~	~		~	~	~	~	~	
0.045"				~				~	
1/16″				~				~	
3/32"									~
1/8″								~	
5/32"								~	
1/4"								~	

### **Typical Mechanical Properties:**

Tensile Strength	Elongation
50,000 psi	65%

# **SILICON BRONZE**

### **Certifications:**

AWS A5.7 ASME SFA 5.7

## **Technical Specifications**

#### Typical Chemical Composition:

Chemical	Sn	Fe	AI	Zn
	1.0	0.50	0.01	1.0 max
	max	max	max	

Chemical	Mn	Si	Pb	Cu	Other
	1.5	2.8-	0.02	Remainder*	0.50
	max	4.0	max	* includes Ag - Silver	max

## Recommended Weld Parameters:

SWAW (DCEP - Electrode+)					
Diameter	Volts	Amps			
3/32"		50-110			
1/8"		90-160			
5/32"		130-180			
3/16"		150-225			
GMAW (DCEP – Electrode+)					
0.035"	20-26	100-200			
0.045"	22-28	100-250			
1/16"	29-32	250-400			
3/32"	32-34	350-500			
GTAW (DCEN – Electrode-)					
1/16"		70-120			
3/32"		120-160			
1/8"		170-230			
5/32"		220-280			
3/16"		280-330			

- Preheating is not recommended. A high boric acid flux should be used before and while welding.
- Keep a small weld pool to allow for rapid solidification/reduce cracks

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