

# Thermal Spray Wires Technical Bulletin

## SG 120 Babbitt #2

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Applicable for:  Flame Spray

### PRODUCT INFORMATION

Babbitt #2 is a high tin Babbitt equivalent to ASTM B-23 #2. Babbitt is used as a lining for bearing shells of cast iron, steel and bronze. The Babbitt lining prevents friction and wear that is common when a lubricant is depleted at a bearing surface. Babbitt #2 is typically used for high operating temperatures and high unit load. These materials display very good corrosion resistance, easy bonding and fewer tendencies for segregation. They are preferred for use under steady load conditions in steam and gas turbines, electric motors, blowers and pumps.

### NOMINAL CHEMICAL COMPOSITION (%)

Sn	89
Sb	7.5
Cu	3.5

### WIRE PROPERTIES

∅ Wire	1/8 inch (3.17mm)
Morphology	Solid
Melting Point	466 - 669° F
Density	6.67 g/cm <sup>3</sup>

### COATING FEATURES (nominal data)

Hardness	HR <sub>15</sub> T 32 - 35
Roughness Ra (as sprayed)	6 - 8 μm
Bond Strength	~ 2870 PSI
Coverage	0.9 oz/ ft <sup>2</sup> / mil
Deposition Efficiency	71%

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CoatingSolutions@Saint-Gobain.com | www.coatingsolutions.saint-gobain.com

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### APPLICATIONS

- Heavy duty, high temperature bearing lining

### SURFACE PREPERATION

Surface should be clean, white metal, with no oxidation, oil, grease or dirt on the surface. Recommended method of preparation is to grit blast with 24 mesh aluminum oxide, rough grind, or rough machine in a lathe. Note: It is best not to handle the surface after cleaning.

### PACKAGING

Coil	Paper Wrapped
Weight	25 lbs ± 1 lb.



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