



# Phosphor Bronze Shim Stock

Product Catalog



# Phosphor Bronze Shim Stock



## Features

- Phosphor Bronze Shim Stock offers superior mechanical properties, providing high strength and durability.
- It features excellent corrosion resistance, particularly effective in marine and industrial environments.
- The material provides high electrical conductivity, making it ideal for electrical and electronic applications.
- Its exceptional malleability and ductility allow for easy customization and precise adjustments.
- It has good thermal conductivity, facilitating effective heat dissipation.
- The shim stock is compatible with various plating and finishing processes.
- It ensures reliable performance across a range of industrial and engineering tasks.



## Description

Scarb® Phosphor Bronze Shim Stock, engineered for precision, combines high durability with exceptional corrosion resistance. Crafted from a high-phosphorus bronze alloy, it features a uniform thickness for accurate adjustments in machinery and components. Its superior electrical conductivity makes it ideal for use in electronics and electrical applications, while its outstanding mechanical properties ensure reliable performance in HVAC systems and automotive parts. The material's excellent malleability and ductility allow for easy customization and shaping, and its compatibility with various finishes and plating processes adds versatility.

## Applications

- Utilized in electronics for fine adjustments and precise alignment due to its excellent electrical conductivity.
- Essential in HVAC systems for creating tight seals and ensuring proper airflow control.
- Commonly used in automotive applications for spacing, shimming, and alignment of components.
- Applied in telecommunications for grounding and shielding to prevent signal interference.
- Widely employed in the aerospace industry for heat dissipation and precision shimming tasks.

## Material Characteristics

- Alloy 510 spring tempered grade A is hard, resilient, and fatigue resistant with a tensile strength of 95,000-110,000 PSI, meeting ASTM-B-103 and AMS-4510 standards.
- It offers excellent electrical properties and great cold working characteristics.
- The alloy is corrosion resistant and can be soldered and welded, providing versatility in applications.





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## Technical Data

<i>Thickness</i>	<b>6" x 96" Rolls</b>		<b>6" x 50" Rolls</b>	
	<i>Part No.</i>	<i>Wt./Lbs</i>	<i>Part No.</i>	<i>Wt./Lbs</i>
.005/.127mm	PB-5	.92	PBX-5	.43
.008/.203mm	PB-8	1.48	PBX-8	.69
.010/.254mm	PB-10	1.85	PBX-10	.86
.013/.330mm	PB-13	2.40	PBX-13	1.12
.016/.406mm	PB-16	2.95	PBX-16	1.37
.020/.508mm	PB-20	3.69	PBX-20	1.72
.025/.635mm	PB-25	4.60	PBX-25	2.14
.032/.812mm	PB-32	5.90	PBX-32	2.74
.040/1.02mm	PB-40	7.38	PBX-40	3.43
.050/1.27mm	PB-50	9.22	PBX-50	4.28
.064/1.63mm	PB-64	11.81	PBX-64	5.48