

Bronze Filter Powders

ACuPowder is the world's largest producer of spherical bronze filter powders. Developed to satisfy the needs of the high reliability metallic filter market, this material is adaptable to an expanding range of applications. Its availability in **partially diffused** or **pre-alloyed** form, as well as closely controlled particle size ranges, offers the materials engineer a versatile and adaptable raw material.

"HP" Spherical Bronzes are the coarsest of the bronze materials and are offered in six standard grades of very narrow particle size ranges. "HP" Spherical Bronze is produced by partially diffusing a tin coating on an interior copper particle. The production process enables a virtually mono-sized particle to be formed granting the materials designer a highly controlled and, therefore, reproducible consistent product.

Grade	Tin %	A.D. g/cc	Typical Screens
12 HP	2.5 - 3.5	5.0	-10/+20
23 HP	3.5 - 4.5	4.9	-20/+30
31 HP	4.0 - 5.0	4.8	-20/+40
34 HP	4.0 - 5.0	4.8	-30/+40
46 HP	5.5 - 6.5	4.8	-40/+50
68 HP	6.5 - 7.5	4.7	-50/+60

"P" Spherical Bronze is a fully alloyed bronze particle. Available in seven standard grades representing particle size ranges from moderately coarse to fine. All grades contain 9.0 – 10.5 % Tin.

"A" Spherical Bronze is made by partially diffusing a tin coating on an atomized spherical copper powder and is available in four standard grades of a generally finer particle size distribution than the "HP" Spherical Bronzes.

Grade	Tin %	A.D. g/cc	Typical Screens
61 A	8.0 – 9.0	4.7	-60/+150
83 A	8.0 - 9.5	4.7	-80/+200
103 A	8.5 – 10.0	4.7	-100/+325
153 A	9.0 – 10.5	4.7	-150/+325

Grade	A.D. g/cc	Typical Screens
250 P	5.0	-20/+40
150 P	5.0	-30/+60
90 P	5.0	-50/+80
60 P	5.0	-80/+150
40 P	5.0	-100/+230
25 P	5.0	-200/+325
10 P	5.0	-325

Note: All "P" Grades are also available as "PP" Spherical Bronze which is a fully alloyed bronze with a nominal 0.3% Phos content for increased sintered strength.

For more detailed technical information or to discuss a specific filtration requirement please contact Technical Services at (908) 851-4500 ext. 521

The information contained herein is presented as a guide for your investigation and verification. Products mentioned are sold without warranty, expressed or implied, that the goods shall be fit for any particular purpose of or use by the purchaser. Purchasers must conduct their own tests to determine the suitability for their intended purpose. We assume no liability for infringement of any patent resulting from the application of this information. By reason of lack of knowledge as to specific uses, no representation or warranty is made regarding the safety of these products or materials under the Federal Food, Drug and Cosmetics Act.

*From industry pioneer to industry leader,
We are innovation in motion*

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