

# Spherical Copper Shot and Powders

**ACuPowder's** Spherical Copper Shot and Powder provides materials designers with a high purity, closely controlled particle size range material, required for consistently reliable performance in specialized applications. Applications include: thermal spray coatings, synthetic industrial diamond manufacturing, metal impregnated plastics, heat exchangers, and x-ray and radiation control. We would be pleased to put our more than 90 years of metal powder experience to work for you to assist in material selection, or in development of custom materials specifically suited to your application.

**"HP" Spherical Copper Shot** is produced in five standard grades and represents the coarsest and highest purity of the spherical copper materials. The manufacturing process enables the consistent production of mono-sized particles ensuring reproducibility in the ultimate application.

Grade	A.D. g/cc	% Cu min	Screen Analysis-Mesh-%						
			+10	+20	+30	+40	+50	+60	+80
<b>12HP</b>	4.5-5.5	99.5	2max	97min	1max				
<b>23HP</b>	4.5-5.5	99.5		1max	97min	2max			
<b>34HP</b>	4.5-5.5	99.5			2max	95min	3max		
<b>46HP</b>	4.5-5.5	99.5				2max	95min	3max	
<b>68HP</b>	4.5-5.5	99.5				1max		88min	11max

**"A" Spherical Copper Powder** is produced by atomization of copper with subsequent sizing to ensure a narrow particle size distribution. "A" Spherical Copper Powder comes in six standard grades representing increasingly finer particle size distribution.

Grade*	A.D. g/cc	%Cu min	Screen Analysis – Mesh - %						
			+60	+80	+100	+150	+200	+325	-325
<b>61</b>	4.5-5.5	99.0	5max	30-60	30-60	15max			
<b>83</b>	4.5-5.5	99.0		2max	20-50	50-75	10max	Tr	
<b>103</b>	4.5-5.5	99.0			2max	Bal	50-80	20-50	10max
<b>153</b>	4.5-5.5	99.0				2max		Bal	10max
<b>154</b>	4.5-5.5	98.5			3max		Bal		50max
<b>155</b>	4.5-5.5	98.5					0.5max	Bal	95min
<b>500</b>	4.5-5.5	98.5					0.5max	Bal	99min

\*All grades are available in an annealed/reduced form designated by an "A" suffix. All annealed grades - 99.3% Cu.

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.

ISO 9001

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

ISO 14001

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*We have been part of your lives for over 90 years*