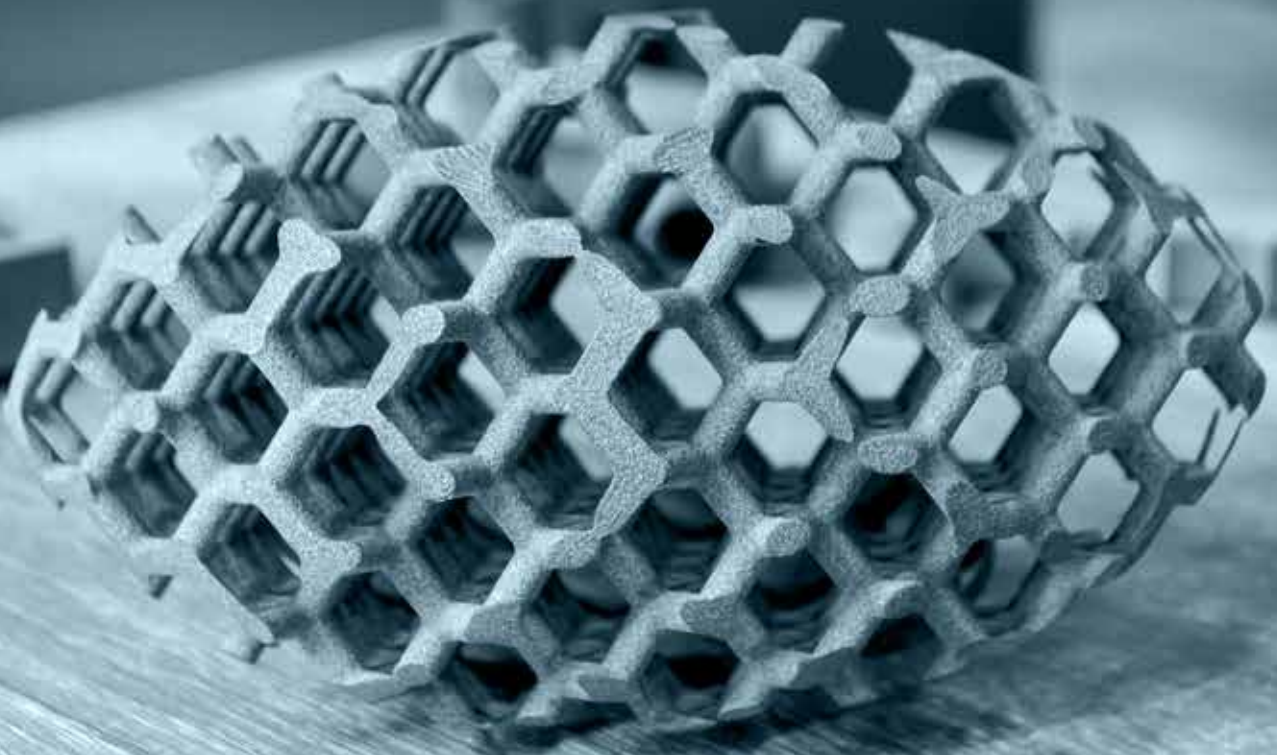


# CUSTOM METAL POWDER

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LET'S BRING YOUR **CUSTOM POWDER**  
VISION TO LIFE.



## **WHEN PASSION CREATES EXCELLENCE**

Are you looking for a custom metal powder for your niche or novel application? This is where we excel.

From broad flakes to fine dust, we specialize in developing highly custom metal powders in any alloy or size that other manufacturers can't do or won't do. Everything from the weird, wonderful, and wacky. And we're passionate about it.

*Whatever application you have in mind, we have the know-how and experience to develop the right powdered metal for you.*



### **CUSTOM ALLOYS**

We manufacture custom metal powder in a range of alloys including nickel, cobalt, iron, stainless steel, super duplex stainless steel, copper, and specialty alloys.

### **READY TO SHAPE YOUR VISION INTO REALITY?**

Got an out-of-the-ordinary idea? We bring your visions to life. Our cutting-edge water atomization process and metallurgical expertise enable us to precisely engineer powdered metal for your most atypical concepts. Challenge us today.

### **HIGHLY SPECIALIZED APPLICATIONS**

Our custom powdered metals are used across a diverse range of industries in a multitude of applications worldwide. Simply put, they defy categorization. Typical market sectors include industrial, engineering, automotive, architectural, petrochemical, pharmaceutical, and more.

From Engineers to Product Managers, and Technologists to small business owners, we work closely with customers to develop atomized metal powder solutions to exact specifications.

### MESH AND MICRON SIZES

MESH	MICRON	MESH	MICRON
-10/+20	-2000/+850	-60/+80	-250/+180
-10/+25	-2000/+710	-60/+100	-250/+150
-18/+20	-1000/+850	-70/+100	-212/+150
-18/+25	-1000/+710	-80/+120	-180/+125
-20/+30	-850/+600	-100/+140	-150/+105
-20/+35	-850/+500	-100/+170	-150/+90
-20/+40	-850/+425	-100/+200	-150/+75
-25/+40	-710/+425	-120/+200	-125/+75
-25/+50	-710/+300	-140/+200	-105/+75
-30/+40	-600/+425	-140/+230	-105/+63
-30/+45	-600/+355	-170/+270	-90/+53
-30/+50	-600/+300	-170/+325	-90/+45
-30/+60	-600/+250	-200/+325	-75/+45
-35/+45	-500/+355	-230/+400	-63/+38
-40/+60	-425/+250	-325/+500	-45/+25
-45/+60	-355/+250	-325	-45
-40/+80	-425/+180	-500	-25
-50/+70	-300/+212	-635	-20
-50/+80	-300/+180	N/A	-10
-50/+100	-300/+150		

### CUSTOM SIZES

Our custom metal powders are typically available in sizes from 10 to 2000 microns. Custom sizes outside of this range are available on request.

### ADVANTAGES

Our world-class water atomization process enables us to flexibly meet precise customer needs to maximize the performance of specialized applications.

- Custom alloys and sizes
- Custom morphology, surface area, and density
- Small batch sizes and short lead times



**INDUSTRY-LEADING METALLURGISTS**

Bringing together over a 100 years of metallurgical expertise, our team of engineers combines exceptional analytical skills with their deep understanding of industry trends, enabling them to stay ahead of the curve. With their unwavering commitment to excellence, our metallurgists are leaders in their field, and by choosing us we will be a strategic partner committed to your success.

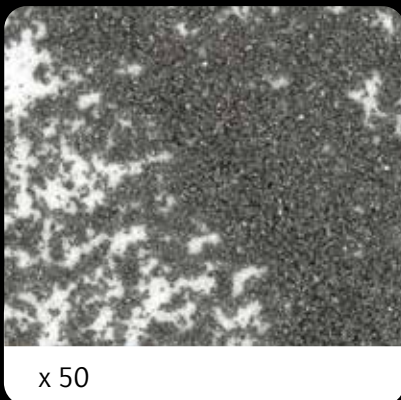
**WORLD'S LEADING PRODUCER**

A proud combination of performance, quality, and innovation, we are a clear choice for any customer. We have a reputation for delivering on time, maintaining quality, and providing support from start to finish. From our quality control measures to our commitment to developing long-lasting relationships, you can be assured that we are here to work with you in the long term.

**MEDIUM GRAIN**

From powders coarse to fine, with controlled morphologies, we are up for the challenge of making whatever you need.

Below: Typical medium sized powder optimized for green strength, utilized in industries such as Powder Metallurgy.



x 50



x 100



x 200

**COARSE GRAIN**

Below: Typical coarse sized powder optimized for minimal apparent density and maximal surface area, utilized in industries such as filtration.



x 50



x 100



x 200

### FIRST-CLASS R&D

With on-site characterization capabilities and flexible atomization capacity, we are well suited to develop and trial new materials. Working closely with you to both best meet your needs and make sure you are involved in your new product. With quality inspection techniques and production scalability we will be with you every step of the way.

### 60+ YEARS

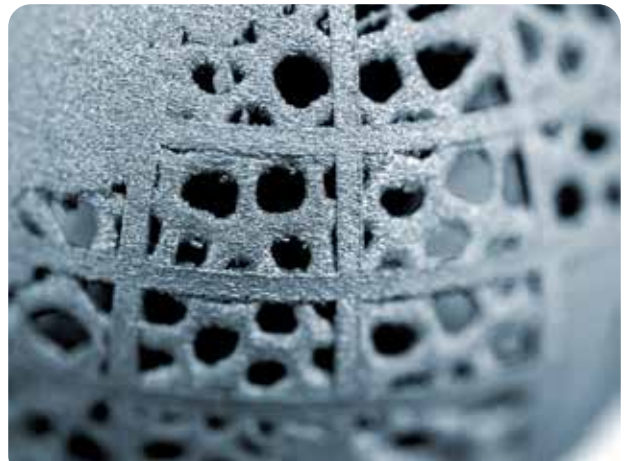
In continuous operation for over 60 years, AMETEK has built a strong foundation of efficient processing, operational excellence, and continuous improvement. Providing high value products through an experienced operations team and broad equipment capabilities.

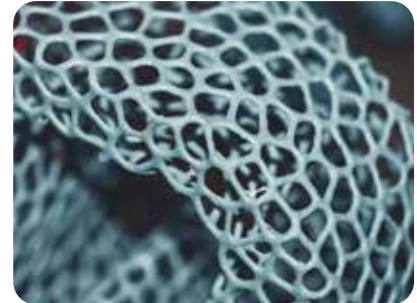
### MATERIAL DEVELOPMENT

Offering over 200 specialty alloys and materials, our team of engineers and technologists are working constantly to create new products and modify our existing ones to best serve our broad customer base. As material conditions become more challenging, corrosion environments and property requirements become more stringent, our customers require innovative powder solutions. Take advantage of this expertise to customize a solution for you.

### QUALITY FIRST

Our materials are produced in accordance with ISO 9001. We are immersed in regulated industries including aerospace, medical, food, and defense. We are proud to ensure that our products meet the stringent standards and requirements needed and will pass along that quality system to you. All of our powder is provided with a certificate of conformance and delivered in safe, secure packaging from 1lb to 4000lbs.





## **World Leading** Manufacturers of **Advanced Metallurgical Products** for Critical Applications.

### **ABOUT AMETEK SPECIALTY METAL PRODUCTS**

The Specialty Metal Products business unit consists of five businesses and operating facilities in the United States and the United Kingdom.

These businesses are proven experts in the manufacture of advanced metallurgical products including roll-bonded clad plate, precision metal strip, ultra-thin foil, shaped wire, engineered components, thermal management materials, water atomized powders and precision tube.

Our high performance metal products are used around the world for critical applications in a range of industries including aerospace, automotive, defense, electronics, industrial, medical, nuclear, oil and gas, and space and satellites.

AMETEK, Inc. is a leading global provider of industrial technology solutions serving a diverse set of attractive niche markets with annual sales over \$6.0 billion.



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