

# WORLD CLASS METAL POWDERS

## OVERVIEW



## SPECIALTY METAL ATOMIZED POWDERS

### PRODUCTS:

- Stainless steel alloys
- Nickel base alloys
- Copper base alloys
- Cobalt base alloys
- Custom and proprietary alloys

### SOLUTIONS FOR:

- Corrosion problems
- Wear and abrasion
- Magnetic property needs
- Precision filtration
- High temperature components

## PRODUCTS AND APPLICATIONS

### POWDER METALLURGY (P/M)

Advanced alloy powders manufactured via water atomization technology. AMETEK SMP has built a reputation for its unique flexibility in customizing specialty alloy powders.

**Products:** 303L, 316L, 304L, 409L/CB, 410L, 430L, 434L/CB



### Applications:

Lock hardware, appliance parts, exhaust system components.

### SURFACE COATING

Surface Coating is a cost-effective means of enhancing the performance of a metal component through improved hardness and machinability, corrosion resistance, wear and heat resistance and enhanced impact and abrasion resistance. Types of surface coating include Spray & Fuse, HVOF (High Velocity Oxy-Fuel), PTA (Plasma Transferred Arc) and Laser Cladding.

**Products:** Stainless steel alloys, Copper-nickel alloys, Nickel and nickel base alloys, Nickel-chrome alloys



### Applications:

Oil field equipment, glass molds, agricultural equipment.

### FINE POWDERS

High alloyed powders in finer mesh sizes such as -325.

**Products:** 304L, 316L, 410L, 430L, Nickel alloys, Cobalt alloys



### Applications:

Plastic compounding (metal detectable materials), Sealing technologies.

### FLAKE

Premium-quality stainless steel combines excellent corrosion resistance with outstanding abrasion resistance and toughness. Not only does it resist salt spray and acid spotting but it is also unaffected by strong alkaline cleaners and detergents.

**Products:** Stainless steel alloys



### Applications:

High-performance paints, industrial machinery, mineral spirits, food processing equipment, architectural, motorsports, plastic compounding.

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## PRODUCTS AND APPLICATIONS

### METAL INJECTION MOLDING (MIM)

Recognizing the need for superfine powders for injection molding and other industry requirements, AMETEK SMP has developed a proprietary method of producing and processing fine metal powders down to 10 microns.

**Products:** 17-4PH, 70/30 FeCr, Stainless Steels



#### Applications:

Automotive, industrial engineering, IT, consumer.

### POLYESTER SPINNING

Achieving the highest quality fibers in textile manufacturing requires selecting the right filtering medium in the spin pack. Unlike sand or glass, the irregular shapes of metal powders are extremely effective at shearing polymer microgels, as well as removing contamination from the polymer melt.

**Products:** DP-1, 31 6L



#### Applications:

Polyester and nylon fiber production.

### SINTERED FILTER-GRADE POWDERS

Corrosion-resistant stainless steel and high-strength nickel powders for liquid and gas filtration. Our filter grade powders are specially atomized to give the highly irregular shape required for precise filtration. Our expertise in achieving narrow particle size ranges and desired shapes allows the filter producer to design custom pore sizing.

**Products:** 31 6L, Nickel Based



#### Applications:

Precision chemical filtration in extremely corrosive environments, including petrochemical, pharmaceutical and semiconductor production.



1085 Route 519, Eighty Four, PA 15330, United States  
**E:** EF.sales@ametek.com | **T:** (+1) 724-225-8400

[www.powderclad.com](http://www.powderclad.com)

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