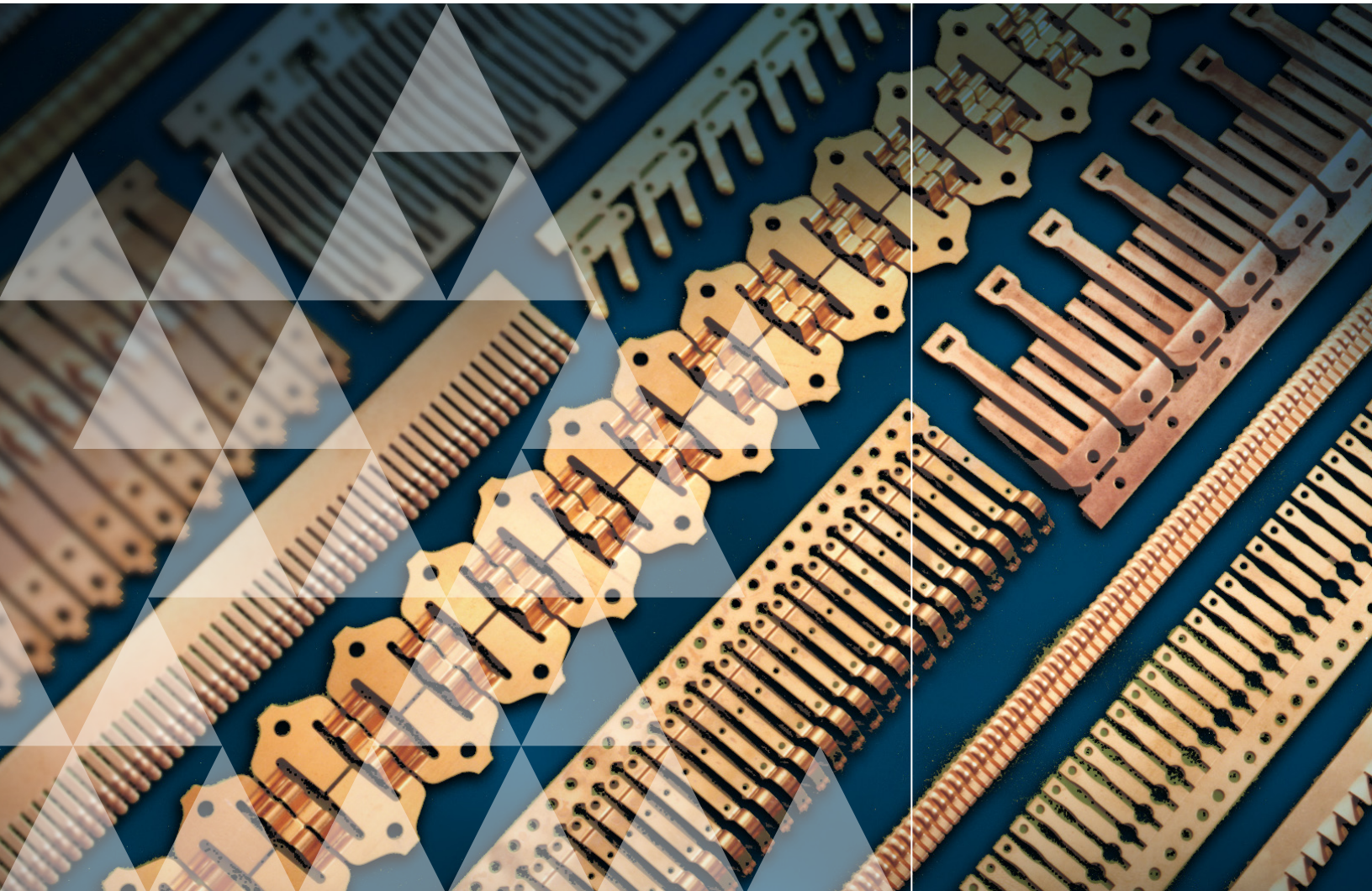


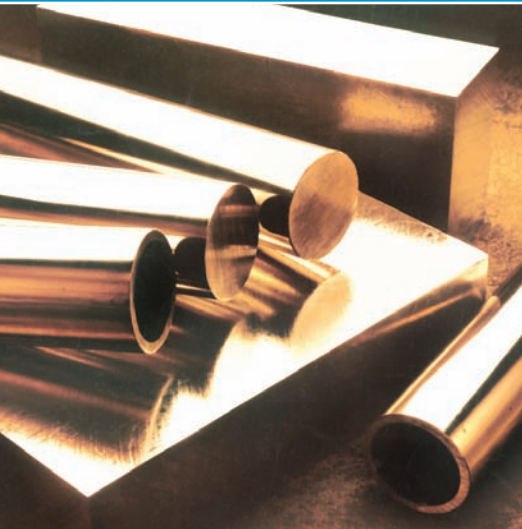


**MATERION**



**BRUSH  
PERFORMANCE  
ALLOYS**

# SOLUTIONS DELIVERED



**MATERION** is the new name for Brush Engineered Materials Inc. and all of its businesses, including what you have known as Brush Wellman Inc.'s Alloy Products. Now under the Materion brand, **MATERION BRUSH PERFORMANCE ALLOYS** is the world's leading supplier of high-performance alloys, providing high-strength, high-conductivity copper and nickel beryllium products, and non-beryllium-containing specialty alloy products. With unparalleled technical expertise and global service, we are your first choice for the most demanding applications.



# WHAT OUR ALLOYS OFFER

We make tough materials for rugged environments. Our original equipment manufacturing customers turn to us for solutions to their product-specific requirements, whether it is to make an end product smaller, lighter, thinner, lower cost, better performing, longer-lasting or more reliable. Our alloys provide:

- High strength and hardness
- High thermal conductivity
- High thermal stability
- High electrical conductivity
- Corrosion resistance
- Good machinability
- Good formability
- Good tribology
- Resistance to stress-relaxation

Specialty alloys from Materion Brush Performance Alloys can also have the following properties:

- Antimicrobial
- Non-biofouling
- Non-magnetic
- Non-sparking
- Anti-galling / non-friction
- Age hardening
- Miniaturization

## THE LEADER IN COPPER- AND BERYLLIUM-BASED ALLOYS

For more than 80 years, Brush Performance Alloys has played a central role in the development of copper-based alloy system components, metallurgically tailored to meet customers' performance requirements. Our materials can be found in technically demanding end-use products in aerospace, automotive, computers, telecommunications, manufacturing equipment, mobile equipment, medical products, oil and gas, plastic tooling and more.

## FULLY INTEGRATED FROM MINE TO MILL

With the Western world's sole commercially viable source of beryllium ore, Materion is the world's only fully integrated developer and supplier of engineered beryllium materials, from mining to R&D to mill products and value-added fabrication services. Our strip and bulk products are manufactured at Materion facilities in Ohio and Pennsylvania and distributed worldwide through a network of company-owned service centers, distributors and agents.

## STRIP AND BULK PRODUCTS IN MANY FORMS

We sell bulk form products and strip products, which include thin-gauge precision strip and small diameter rod and wire. These copper and nickel beryllium alloys provide a unique combination of high conductivity, high reliability and formability for use as connectors, contacts, switches, relays and shielding. Bulk products are copper and nickel-based alloys manufactured in plate, rod, bar, tube and other customized forms that, depending upon the application, consistently provide superior strength, corrosion or wear resistance, thermal conductivity or lubricity.

## SPECIALTY ALLOYS TO MEET YOUR REQUIREMENTS

While we are the world's leader in copper and nickel beryllium alloy products, we also produce a growing line of non-beryllium alloys. Foremost of these is ToughMet®, a remarkable copper-nickel-tin engineered alloy renowned for its combination of strength, lubricity and resistance to corrosion. This unmatched property set makes it the material of choice for applications such as bearing materials used in drilling, mining and other tough environments. Beyond ToughMet®, we have introduced other new alloys and processes for shielding, connectors and other applications in products such as smart phones, digital cameras and computers.

## RESPONSIBLE STEWARDSHIP

At Materion Brush Performance Alloys, it is our policy to design, manufacture and distribute products and to manage, recycle and dispose of materials in a safe, environmentally responsible manner. The health and welfare of people and the environment are our highest priority, and we are proud of our world-class safety and environmental efforts.

## MARKETS SERVED

- Consumer Electronics
- Commercial Aerospace & Industrial
- Automotive Electronics
- Telecommunications Infrastructure
- Oil and Gas & Alternative Energy
- Medical
- Defense & Science

## KEY PRODUCTS

- Copper Beryllium
- Nickel Beryllium
- Leaded Copper Nickel Wire
- ToughMet®
- MoldMax®
- Beryllium Hydroxide

## MAJOR PRODUCT FORMS

- Strip
- Rod
- Wire
- Plate
- Bar & Billet
- Casting Alloys



# MATERION

## BRUSH PERFORMANCE ALLOYS LOCATIONS

### Main Office

Mayfield Heights, Ohio

### Production and Distribution

Chicago, Illinois

Detroit, Michigan

Elmore, Ohio

Lorain, Ohio

Reading, Pennsylvania

### International Service Centers

Fukaya, Japan

Hong Kong

Incheon, Korea

Pune, India

Reading, England

Shanghai, China

Singapore

Stuttgart, Germany

Taipei, Taiwan

Tokyo, Japan

## ABOUT MATERION

Materion is the new name for Brush Engineered Materials Inc., its Brush Wellman Inc. subsidiary and all of the company's businesses worldwide. Materion is among the world's premier providers of advanced materials solutions and services. Now under the one Materion brand, we are better aligned to deliver a broader scope of products, services and expertise needed to drive our customers' growth and profitability and become their first choice in a partner. Materion Corporation common stock trades on the New York Stock Exchange under the symbol MTRN.

## MATERION BUSINESSES

Advanced Chemicals

Barr Precision Optics & Thin Film Coatings

Brush Beryllium & Composites

Brush Performance Alloys

Ceramics

Electrofusion

Large Area Coatings

Microelectronics & Services

Natural Resources

Technical Materials

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