

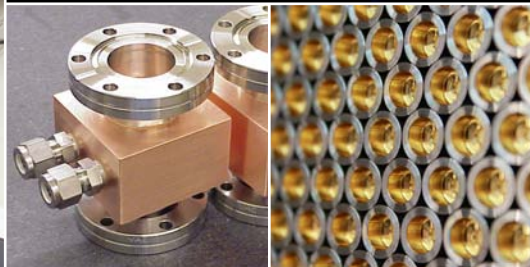


MATERION



ELECTROFUSION

SOLUTIONS DELIVERED



MATERION is the new name for Brush Engineered Materials Inc. and all of its businesses, including what you have known as Electrofusion Products. Now under the new Materion brand, the renamed **MATERION ELECTROFUSION** is the leading supplier of high-purity beryllium foil products including: flat and formed foils for x-ray tubes and detectors; x-ray window assemblies with and without metallic target coatings; Ultra High Vacuum (UHV) components, chambers and beam pipes for high-energy research; and a diverse array of domes and electromechanical assemblies for the acoustics market.



45+ YEARS OF EXPERIENCE

We have a long history of working safely with beryllium and managing the supply chain to consistently supply precision components and assemblies to our customers.

THE ONLY FULLY INTEGRATED GLOBAL BERYLLIUM PRODUCER

Our beryllium begins its journey at the Materion mine in Utah, where raw ore is extracted, sent to the Materion processing facility in Ohio, and refined. Electrofusion starts with the pure beryllium and leverages its staff of engineers and metallurgists and sophisticated ERP/ MRP systems to process each order. Our facility has complete in-house machining, fabrication, and joining capability, including vacuum furnace brazing and electron beam welding. We also have ready access to specialty services provided by other Materion businesses.

IMPROVING THE WAY WE LIVE AND ADVANCE

Electrofusion supplies some of the key components and assemblies for medical x-ray applications, including advanced designs for mammography and CAT scan imaging. We facilitate analytical x-ray applications such as handheld devices used to detect RoHS-banned elements, benchtop and in-situ units used for processing next-generation fuels, and baggage inspection technologies to improve travel safety. Our facility is the world's leading supplier of critical components supporting research and development in high-energy physics. We supply the professional audio and home audiophile markets with the highest-performing materials and assemblies.

MEETING THE DEMAND FOR EVER HIGHER PERFORMANCE

Our commitment to continuous improvement results in the development of innovative materials, processes and capabilities to meet our customers' demands for ever-higher performance. Electrofusion was the first (and remains the only) company to develop beryllium foil for acoustic applications with the right mix of stiffness for superior performance and ductility for ease of fabrication. We were the first to develop commercial electron beam welding processes for joining beryllium to beryllium, and for joining Materion's proprietary AlBeMet® to AlBeMet composites. We continue to invest in new equipment, upgrade existing equipment, and provide ongoing training of our personnel – all to ensure our capabilities are always state-of-the-art.

DELIVERING SOLUTIONS, MAXIMIZING VALUE

Our comprehensive in-house "one-stop shop" capability, which includes engineering, fabrication, assembly, final test and QA, allows us to provide solutions to enable your technology. Our investment in people, systems and capital equipment all work together to consistently deliver maximum value.

RESPONSIBLE STEWARDSHIP

At Materion Electrofusion, 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.

7.3 METER LONG BEAM PIPES
We build everything from extremely long beam pipes for use in particle accelerators to large-diameter UHV chambers, to tiny precision discs less than 3mm in diameter.

8 MICRON THIN FOIL
We provide all shapes and sizes of beryllium foil components, from 8µm to 8mm thick. All our foils can be supplied in flat, formed, or machined shapes with any surface finish built to your precise requirements.

99.8 PERCENT PURE BERYLLIUM
High-purity beryllium foil is the most transmissive for use in x-ray applications and eliminates spurious element signatures. Lower grades are also available for less demanding applications.

450° CELSIUS ENDURANCE
Our diffusion-bonding joining method is a high-volume process that yields beryllium window assemblies with high temperature endurance and at a low unit cost.

MARKETS SERVED

- Medical X-ray
- Analytical X-ray
- High Energy Physics
- Semiconductor
- Acoustics

KEY PRODUCTS

- High-purity Beryllium Foil
- X-ray Window Assemblies
- Metallic Coatings
- X-ray Transmissive Coatings
- UHV Components, Chambers & Beam Pipes
- Transducer Components
- Electromechanical Assemblies

SELECT SERVICES

- Vacuum Furnace Brazing
- Electron Beam Welding
- Exotic Metals Fabrication
- Engineering Design
- Project & Supply Chain Management



MATERION

ELECTROFUSION LOCATIONS

Main Office and Production

Fremont, California

International Sales

Reading, England

Shanghai, China

Singapore

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. 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 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

ELECTROFUSION

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