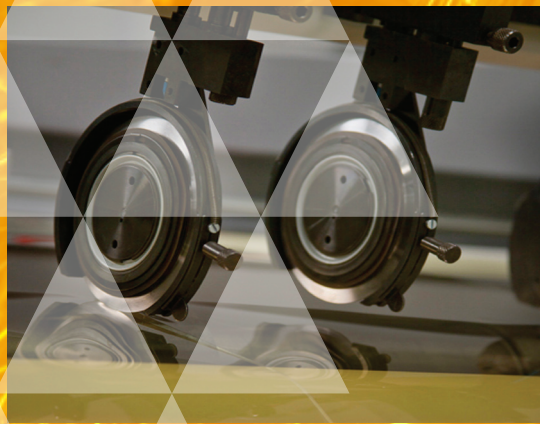




MATERION



Metal Films

LARGE AREA COATINGS



Materion Large Area Coatings provides sputter coating, converting, development services and engineering support to a wide variety of industries including: Medical, Display, Flexible Electronics, Aerospace & Defense, Alternative Energy and Industrial Thin Film Markets.

Metal Films

Due to its long history and vast experience in precious and non-precious metals, Materion Large Area Coatings is able to provide a multitude of options when it comes to sputtering metals for its customers.

Precious metals, non-precious metals, tight tolerances, and distinct uniformity describe our approach to manufacturing under stringent controls.

With in-situ process monitoring, Materion can manufacture all of your lightweight flexible film needs. Materion's experienced engineering team brings years of expertise from various industries. That expertise, together with the ability to handle the industry's largest selection of materials, provides customers with the best solutions for their film, sputtering and converting needs.

Markets/Applications:

Materion provides highly engineered solutions for multiple industries including:

- Medical
- Alternative Energy
- Display Technology
- Defense and Aerospace
- Flexible Electronics

Films are primarily defined by customers' specifications which allow them the performance they seek. However, Materion's expertise in working with precious and non-precious metals and understanding of different process requirements allow us to help customers achieve the best possible end product, while meeting or improving their cost requirements. Materion engineering resources help customers find the most cost-effective solutions to metal sputtering challenges such as resistivity, thickness and optical density.

Materion confidently works with precious metals including:

- Gold (Au)
- Palladium (Pd)
- Platinum (Pt)
- Silver (Ag)

Examples of non-precious metals include:

- Stainless Steel
- Copper
- Titanium
- Aluminum
- NiChrome

Core Competencies:

- Maximum roll width – 62"
- Maximum substrate thickness – 30 mil
- Minimum substrate thickness – .25 mil
- Maximum coating thickness – 5000 angstroms
- Optical properties characterized by optical density and VLT
- Resistivity – from one ohm/square to 500 ohms/square



Materion is a global advanced materials company, dedicated to providing solutions that enable our customers' technologies and drive their growth. Our products include precious and non-precious specialty metals, precision optical filters, inorganic chemicals and powders, specialty coatings, specialty-engineered beryllium alloys, beryllium and beryllium composites, and engineered clad and plated metal systems. The Materion business is structured to enhance our ability to provide customers with innovative, best total-cost solutions.

LARGE AREA COATINGS

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MATERION CORPORATION

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