

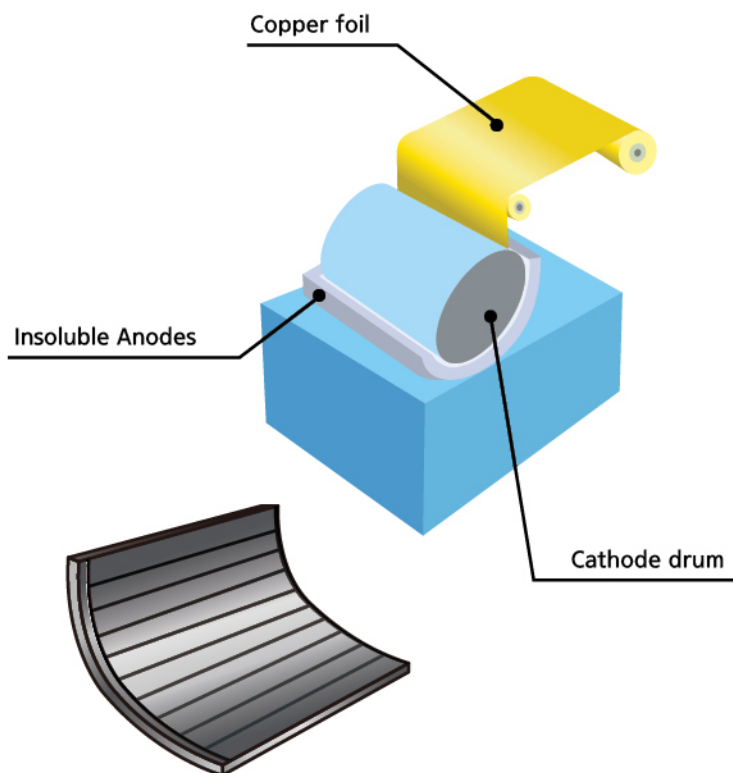
INSOLUBLE ANODE FOR ELECTROLYTIC COPPER FOIL

Electrolytic Copper Foil is a very thin copper film that transmits electrical signals between the substrate and the semiconductor.

It is produced through electrodeposition or rolling method. It is generally manufactured by dissolving copper in sulfuric acid and electrolyzing it, then rotating the cathode drum to obtain copper extracted on the opposite side as copper foil. Electrolytic Copper Foil produced in this way is an essential material for printed circuit boards (PCBs) and secondary batteries, and is applied to IT devices such as notebooks and smartphones, and electric cars.

Copper thickness and surface uniformity are the most important quality requirements. Electrolytic Copper Foil manufacturers usually use electrodes for generating oxygen, that is, insoluble anodes, instead of lead or lead alloy electrodes. This is because this insoluble anode is a basic material and is hardly worn or deformed due to electrolysis.

The long experience and know-how in the electrochemical field allow Wesco Electrode Co., Ltd. to provide electrodes optimized for the electrolytic copper foil manufacturing process. Insoluble anodes optimized for design conditions such as various current densities and drum standards make it for us possible to produce electrolytic copper foil with uniform current distribution and uniform thickness. In addition, maintenance costs can be reduced by reactivating the electrode's coating layer to enable reuse.



+ Application

Area	Pt / Ti Anode	IrO ₂ Anode
• Copper Foil Production		V
• FCCL Production (Flexible Copper Clad Laminate)		V
• Reel-to-reel Plating	V	V
• PCB Electroplating	V	V
• Wafer Electroplating	V	V

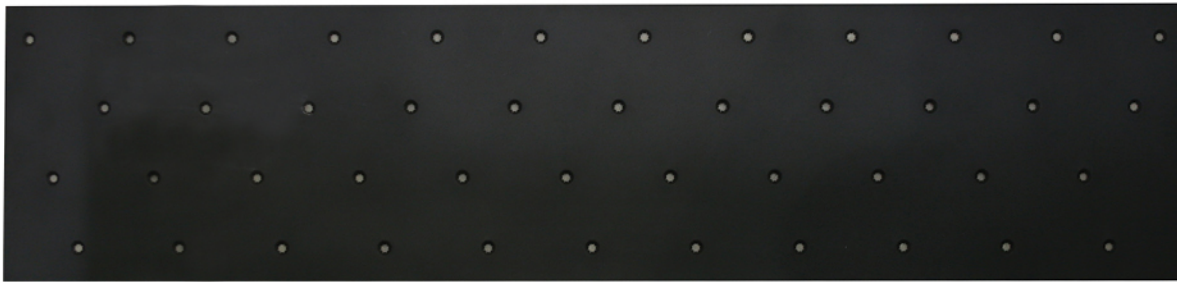
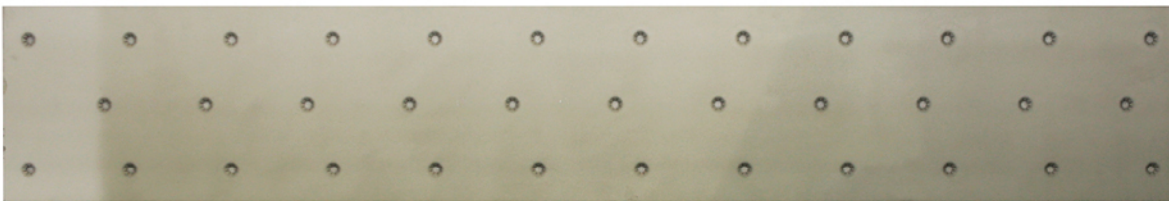
WESCO

Founded in 1993 for the purpose of manufacturing and supplying insoluble anodes, Wookyoung Electrolysis Systems Co., Ltd. has developed titanium anodes and electrochemical technologies that can be applied to various industries. Based on the company-affiliated research center, we hold a number of patents. In 2016, we were reborn as a global partner in the electrochemical field based on excellent reliability and service with a new mission of Wesco Electrode Co., Ltd

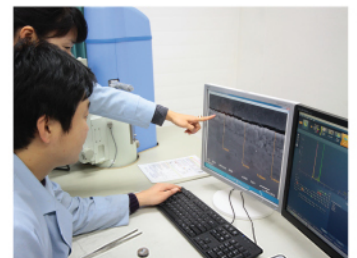
Wesco
ELECTRODE

+ Feature & Benefits

- High-quality insoluble anode to produce copper foil of uniform thickness
- Insoluble anode suitable for various current densities and design specifications
- Anode cleaning, re-coating, and repair services to remove impurities adhering to the used electrode
- Development of an optimized coating solution to meet the performance and requirements of the anode
- Cathode drum fastening base and titanium fastening parts
- Technical support and partnership cooperation based on company-affiliated research center



+ Competitive Advantages



Reliable Support

Technical support and partnership cooperation based on top-notch experiments, quality measurement equipment and outstanding R&D performance

Advanced Technology

Technical support and partnership cooperation based on top-notch experiments, quality measurement equipment and outstanding R&D performance

Custom Solution

Technical support and partnership cooperation based on top-notch experiments, quality measurement equipment and outstanding R&D performance

Rapid Response

Putting experts with core technical capabilities based on the technology and experience in the field of electrochemistry accumulated over the years

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