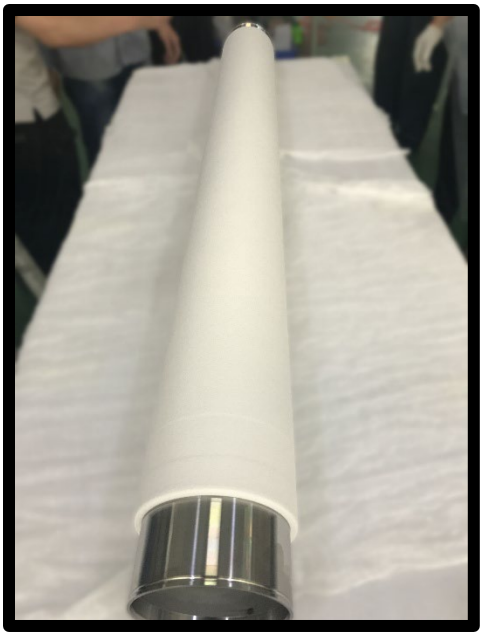
Comprehensive Material Portfolio for WEB Coaters

We offer a diverse range of materials optimized for flexible electronics, barrier films, window tints, and photovoltaic applications:

- Metals & Alloys: High-purity Al, Cu, Ti, NiCr, Sn, and Zn, tailored for maximum conductivity and adhesion.
- Oxides & Ceramics: Precision-engineered ITO (Indium Tin Oxide), IZO, AZO, SiO_2 and TiO_2 for optical and transparent conductive coatings.
- Rotary (Cylindrical) Targets: Our specialty. We provide monolithic and bonded rotatable targets designed to maximize material utilization and minimize "nodule" growth during long production runs.
- Planar Targets: Available in extra-long formats to accommodate wide-web systems without seams that compromise film integrity.

Feature	The Protech Advantage
Microstructure Control	Controlled grain size and orientation for consistent erosion and stable discharge.
High Thermal Conductivity	Advanced bonding techniques ensure targets withstand the high power densities required for high-speed web lines.
Purity Levels	Available up to 5N (99.999%) to prevent defects in sensitive semiconductor or barrier layers.
Custom Backing Tubes	Precision-machined stainless steel, or Titanium backing tubes compatible with all major OEM cathode systems.



Specialized Web Coating Support

The dynamics of a moving polymer or metal web require more than just a "standard" target. Protech Materials brings deep expertise in:

1. Uniformity Management: We assist in optimizing target geometry to ensure Cpk-compliant thickness uniformity across the entire width of the web.
2. Arc Suppression: Through high-density material processing, we reduce particulates and arcing, which is critical when coating heat-sensitive substrates like PET or PI.
3. Extended Campaign Life: Our high-density targets allow for longer intervals between chamber breaks, increasing your overall equipment effectiveness (OEE).

Did you know? Our rotatable targets can offer up to 85% material utilization, significantly reducing the cost-per-square-meter of your coated product compared to traditional planar setups.

Quality Assurance

Every target shipped to a web coating facility undergoes rigorous testing, including ultrasonic bond testing, GDMS purity analysis, and dimensional verification to ensure it drops into your system and performs perfectly from the first wrap.

Customization & Recycling

- Target Geometry: We offer monolithic rotatable ITO targets up to 4 meters in length for wide-format industrial web lines.
- Indium Reclamation: To manage your material costs, Protech offers a comprehensive Spent Target Buyback program. We credit the value of the reclaimed Indium toward your next target order, providing a sustainable and cost-effective supply chain.

Quality Control Data

With every ITO shipment, you receive a full certificate of analysis (COA) including:

- ICP-OES or GDMS Analysis for chemical purity.
- C-Scan Ultrasonic Map ensuring 100% bond integrity between the ITO and the backing tube.
- Surface Roughness (Ra) measurements to ensure rapid "burn-in" times.