

AP TECH

APPLIED PHYSICS TECHNOLOGIES

SPECIALTIES:

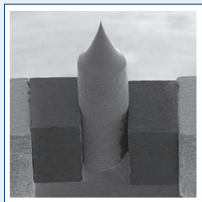


CEBIX™ CATHODES

APTech Exclusive Product

R&D PARTNERING

End-Users, OEMs, Government

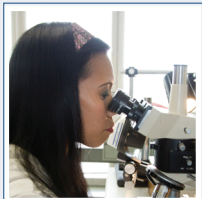


LAB₆ CATHODES

Full Line Offered

FIELD EMITTERS

Electrochemically Etched, Several Materials

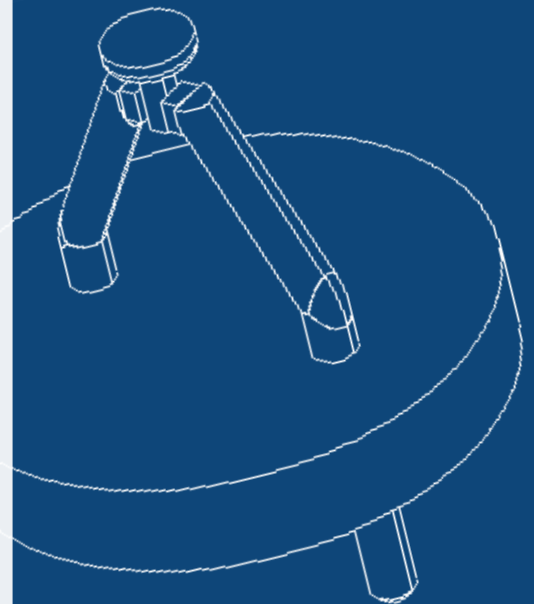


REBUILDING SERVICES

Refurbish Cathodes

REFRACTORY METALS

Tungsten, Molybdenum, & Many More



COMPANY HISTORY:

Applied Physics Technologies is involved both in the production and development of electron emitting materials and electron sources. Custom design and fabrication capabilities augment our standard catalog items to meet our customers' needs. Partnering is available for your more challenging product requirements, particularly for key component realization. Applied Physics Technologies maintains an active role in fundamental electron emission research and publication, striving to bring the newest ideas from the laboratory to the marketplace. Applied Physics Technologies, incorporated in 1995, is an outgrowth of research conducted for over a decade at Linfield Research Institute on transition metal carbides, thermionic and field electron sources. Demand for these products by industry, government and academic researchers led to the formation of APTech. For more company history and information, please visit our website: www.a-p-tech.com

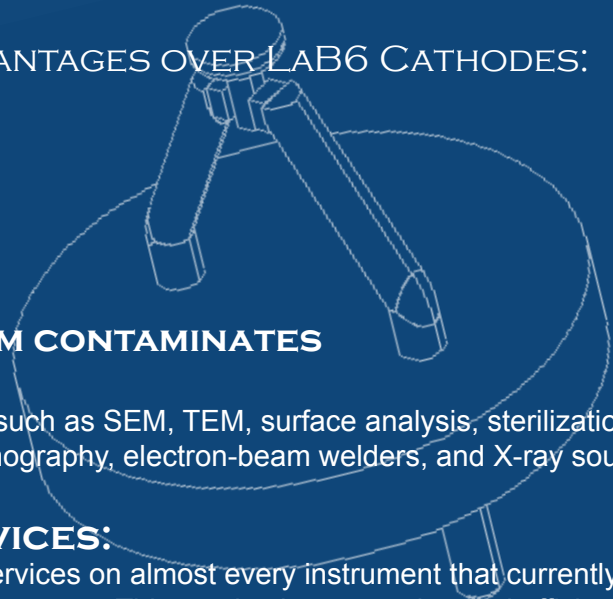
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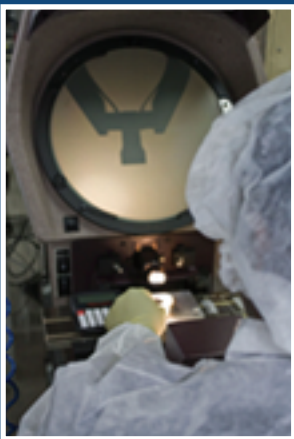
AP*TECH EXCLUSIVELY OFFERS **CEBIX™** (**CERIUM HEXABORIDE**) AS A DIRECT REPLACEMENT UPGRADE FROM **LAB6!**

CEBIX™ CATHODES HAVE SEVERAL ADVANTAGES OVER LAB6 CATHODES:

- **LONGER LIFETIME**
- **FASTER START UP**
- **LOWER WORK FUNCTION**
- **HIGHER BRIGHTNESS**
- **LOWER EVAPORATION RATE**
- **CAPABILITY TO RECOVER FROM CONTAMINATES**



CeBix™ cathodes are ideal for small size applications such as SEM, TEM, surface analysis, sterilization and metrology, and for high current applications such as lithography, electron-beam welders, and X-ray sources.



REBUILDING SERVICES:

APTech offers rebuilding services on almost every instrument that currently uses tungsten, LaB6 or CeBix filaments. This service is cost saving and efficient as rebuilt cathodes reuse the ceramic base, the most expensive raw material used in the assembly. Simply return the cathode core and we will rebuild the cathode for a fraction of the cost of a new cathode.

SINGLE CRYSTAL MATERIALS:

APTech specializes in float zone refining of refractory metals, transition metal carbides, LaB6 and CeBix. We have extensive facilities for growing single crystal rods of these materials. APTech also centerless grinds and electrochemically etches rods to exacting dimensional specifications.

RESEARCH AND DEVELOPMENT CAPABILITIES:

Applied Physics Technologies prides itself on its R&D capabilities. Our state of the art facility, leading edge R&D equipment and knowledgeable scientific researchers allow us to pursue a variety of R&D projects. Our scientists are passionate and experienced researchers in the field and strive to push the boundaries of current knowledge to break through to new levels of academic and technical success. APTech represents the balance of an experienced R&D staff, yet an efficient and responsive team. When you call us, you will never be directed to an automated voice system; rather we have our scientists and marketing specialists on-call to assist you and your needs at any time.



CONTACT US:

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