

# IonBond - Medthin

## Biocompatible Coatings

**Medthin, a Global Medical Division of IonBond, combines extensive experience in thin-film coatings with the demanding quality and performance standards of the Medical and Dental Industries.**

IonBond is the Global Leader in the fields of Physical Vapor Deposition (PVD), Chemical Vapor Deposition (CVD) and Plasma Assisted CVD (PaCVD). IonBond has the largest selection of biocompatible coatings designed to enhance implant and instrument life and performance.

For more than 15 years, IonBond has met the strict guidelines and performance requirements of the Medical Device Industry. IonBond has been the leading supplier of biocompatible thin film PVD coatings for a variety of medical devices, including orthopaedic implants, surgical instruments, orthodontic devices, dental implants and dental instruments.

### Medthin Coatings Provide Solutions

- Biocompatibility
- Improved Wear/Abrasion Resistance
- Reduced Friction
- Excellent Adhesion to Accepted Biomaterials
- Stable Colors for Coding and Identification
- Biologic In-Growth Surfaces
- Chemical Barrier Layers
- Saline Solutions
- Sterilization
- Fretting Corrosion
- Many Acids



Medthin coatings make your devices, implants and instruments more distinctive in appearance and more infection resistant. Most importantly, coatings are biocompatible and are acceptable for use with external and internal devices that come into contact with bone, skin, tissue or blood.

Biocompatibility test protocol has been conducted according to ISO 10993-1 with an independent qualified laboratory for all of the biocompatible products offered. This data is available and provided as proof that the coatings, as deposited by proprietary technologies, are meeting the biocompatible standards of the Industry.

### Medthin BioCompatible Products

- TiN - Titanium Nitride
- ZrN - Zirconium Nitride
- CrN - Chrome Nitride
- TiAlN - Titanium Aluminum Nitride
- AlTiN - Aluminum Titanium Nitride
- TetraBond®
- MoST®
- TST - Titanium Surface Technology
- ADLC - Amorphous Diamond Like Carbon

As the global leader in surface enhancement for medical devices, IonBond seeks to provide innovative products and services for the next generation.

### Technical & Operational Capabilities

IonBond's Medical Device Coating Service Center, located in Northeast New Jersey, is FDA compliant and equipped with state of the art equipment. Including:

- Precision Cleaning Systems
- Automated Coating Process
- Custom Component Fixturing
- Materials Science Laboratory (located in MI and NJ)

The Medthin Medical Device Coating Service Center is uniquely qualified to service your needs:

- Professional Account Management
- Technical Consultation on Applications & Materials
- Full Metallurgical Analysis Capabilities
- ISO Driven Engineering Contract Review
- Responsive Customer Service
- Automated Process & Document Control
- Uncompromising Quality Assurance, including Certification and Access to Internal "Failure Analysis" with Full Reporting
- 100% Lot Integrity and Traceability
- Fully Dedicated Coating Cycles; Eliminating Potential for Cross-Contamination of Product
- Medthin & Customer Specific Coating Specifications

Many years of experience and dedication to the Medical Device Industry make Medthin's line of coatings and services your 1st choice as the single source partner for Coating Technologies, Biocompatible Coatings, Professional and Technical Support.

# IonBond

### IonBond - Medthin Medical Division

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### Founded

1979

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