



HERMETIC SEAL TECHNOLOGY
GLASS TO METAL SEALS

Hermetic Seal Technology, Inc.

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Medical & Titanium Battery Seals

For the healthcare industry, we custom design and manufacture a unique line of medical equipment titanium seals. HST specializes in manufacturing glass-to-metal seals for lithium batteries used in medical implantable devices such as pacemakers, heart defibrillators, drug-delivery systems, portable diagnostic equipment, and pumps. Unlike conventional glass sealing processes, our manufacturing process does not involve chemical oxide removal processes. Our production processes are also free from

[+ more](#)



Specifications

Types of Lithium Battery Systems

Lithium / Manganese Dioxide (Li/MnO₂)
 Lithium / Poly-Carbon Monofluoride (Li/CF_x)
 Lithium / Silver chromate (Li/Ag₂CrO₄)
 Lithium / Silver oxide+vanadium pentoxide (Li/Ag₂V₄O₁₁)
 Lithium / Sulfur Dioxide (Li/SO₂)
 Lithium / Sulfuryl Chloride (Li/SO₂Cl₂)
 Lithium / Thionyl Chloride (Li/SOCl₂)

Implantable Drug-Delivery & Fluid Pump Systems
 Implantable Heart Defibrillators

Implantable Medication

Applications	Implantable Monitors Implantable Pacemakers Middle Ear and Cochlear Implants Neurostimulators
Shell Materials	Stainless Steel Titanium Other Materials Available on Request
Pin Materials	Molybdenum Platinum-Iridium Stainless Steel Titanium
Glass Materials	Borosilicate Cabal 12 HST Custom Lithium Corrosion Resistant Glass TA-23
Capabilities	Brazing Glass Formulation Glass Sealing Resistance Welding
Testing	Hypot (High Voltage) Testing / Breakdown Voltage Insulation Resistance Testing (Isolation) Less than 1×10^{-8} cc/sec helium leak rate (100% tested)
Outsourced Services	Electrochemical Corrosion Testing Glass Smelting Humidity Testing Laser Welding Machining Plating Salt Spray Corrosion Testing Stamping
Hermeticity	Less than 1×10^{-8} cc/sec helium leak rate (100% tested)
	We have the ability to handle orders from ten parts

Production Capability

to millions of parts
We can also do sample parts
HST can help you with free hermetic seal design
and development to insure you have a reliable
and robust glass to metal seal

Advantages of Titanium

Biocompatible
Lightweight
Superior Corrosion Resistance

Plating Options

Electroless Ni Plating
Electrolytic Ni Plating
Hard Gold Plating
Pure Gold Plating
And Many Others

Industries Served

Electronic
Healthcare
Medical
Military
Sensor

Quality Control

FDA Compliant
ISO Compliant