



**HERMETIC SEAL TECHNOLOGY**  
G L A S S T O M E T A L S E A L S

**Hermetic Seal Technology, Inc.**

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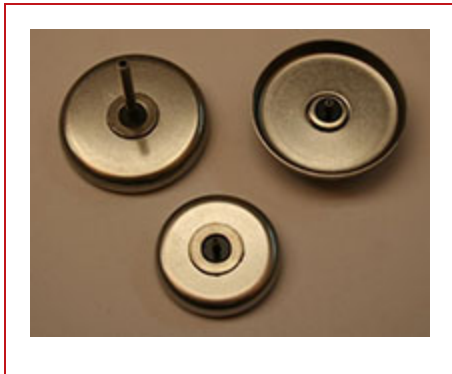
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**Website:** [www.glass-to-metal.com](http://www.glass-to-metal.com)

## Welded & Brazed Parts for Battery Seals

Our experience and expertise in hermetic welding plus brazing allows us to offer range of glass-to-metal seals for the healthcare, military, aerospace, electronic, and automotive applications.

Using resistance welding, we are able to hermetically join glass-to-metal seals to metal surfaces, such as battery lids. To ensure the high hermeticity of the packages, we take into consideration factors such as the type of materials, component design, and welding parameters to ensure the welding process



[+ more](#)

### Specifications

#### Applications

All types of Lithium batteries  
Industrial  
Military  
Automotive  
Aerospace  
Sensors, Consumption Meters, Cameras, and  
Computers

#### Shell Materials

Stainless Steel  
Titanium

## Other Materials Available on Request

**Pin Materials**

52 Alloy (Ni/Fe alloy)  
 Copper Core 446 or 52 alloy  
 Molybdenum  
 Platinum-Iridium  
 Stainless Steel  
 Other Materials Available Upon Request

**Glass Materials**

Babal  
 Cabal 12 and other low silica glass  
 Corning 9010  
 Corning 9013  
 HST Custom Lithium Corrosion Resistant Glass  
 TA-23  
 Other Borosilicate, Barium Alkali, and Soda-Lime glass

**Capabilities**

Leak Checking  
 Resistance Welding

**Plating Options**

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

**Welding Considerations**

The type of materials used in the welding process  
 Heat shock applied to the glass seal during the welding process

**Hermetic Brazing Materials**

Mild Steel  
 Stainless Steel

**Types of Joints (Brazing)**

Butt Joints  
 Lap Joints  
 Rod-in-tube Joint  
 Tube-in-tube Joint

**Bond Strength (Brazing)**

Dependant on specifications and configuration of

part

**Testing**

Hypot (High Voltage) Testing / Breakdown Voltage  
 Insulation Resistance Testing (Isolation)  
 Less than  $1 \times 10^{-8}$  cc/sec helium leak rate (100%  
 tested)

**Hermeticity**

$1 \times 10^{-8}$  cc/sec helium leak rate

**Production Capability**

We have the ability to handle orders from ten parts  
 to millions of parts  
 We can also do sample parts

**Industries Served**

Aerospace  
 Automotive  
 Electronic  
 Healthcare  
 Medical  
 Military  
 Oil Exploration  
 Sensor

**Quality Control**

ISO Compliant