

GETTERS

A MEDICAL INDUSTRY EQUIPMENT ESSENTIAL

MacDermid Alpha's **HICAP™** and **STAYSTIK®** products are developed to meet stringent industry requirements enabling hermetic package manufacturers security and peace of mind to meet industry reliability standards; including JEDEC, MIL STD 883 and NASA outgassing requirements.

Many hermetic implantable packages and modules containing integrated microelectronic devices may out gas H₂, H₂O, CO₂ and other species over time.



Getters are important in the **medical industry** for several key reasons:

A Portfolio That Matches Every Need in the Industry



Medical Industry Portfolio Spotlight	Advantage
STAYSTIK SC3001 Microdot dispensing silver-filled electrically conductive paste	*Low stress *Bond multiple substrates
HiCap2000 High-capacity moisture and CO ₂ getter	*One-part system *Moisture capacity ≥15% of product weight
HiCap3000 High-capacity moisture and CO ₂ getter	*Film with pre-applied adhesive *Allows fast room temperature attach



1. Maintaining Device Integrity: Medical devices often contain sensitive electronic components that must operate reliably over extended periods. Getters help maintain the integrity of these components by removing residual gases.



2. Ensuring Safety and Accuracy: Getters contribute to the overall safety and accuracy of implantable medical devices by creating and maintaining a clean environment within electronic packages, thus minimizing the risk of errors or failures during diagnostic or therapeutic procedures.



3. Supporting Long-Term Stability: Medical devices may be used in diverse and sometimes challenging environmental conditions. Getters ensure long-term stability of electronic components by preventing the buildup of contaminants.



4. Enhancing Device Durability: Medical Implantables often undergo a rigorous sterilization processes. Getters help in maintaining the durability of electronic components by safeguarding them against the effects of residual gases or impurities that might result from sterilization procedures.