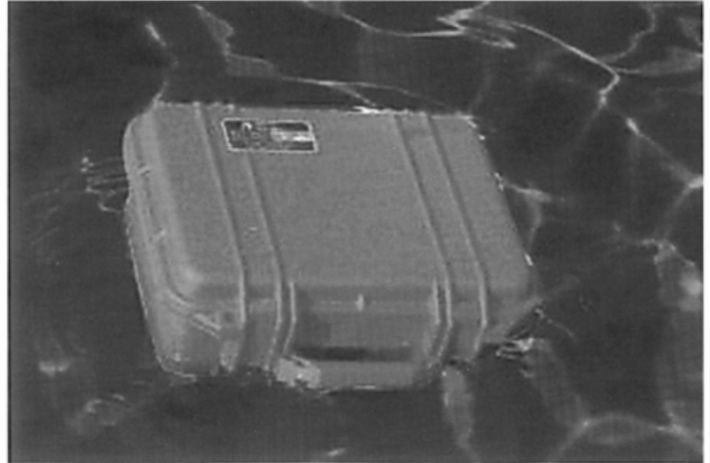


# Sealing Solutions

## APPLICATIONS IN INDUSTRY

**PROBLEM: Making switches watertight on water-resistant-failsafe ohmmeters/digital ignition testers**



### **Subject: Switch Sealing Boots**

**Situation:** AMPTEC RESEARCH of Austin, Texas manufactures safety ordnance test instrumentation for missile rocket motors, detonators and warheads for the U.S. aerospace industry. The U.S. Navy wanted a weatherized and ruggedized "Igniter Tester" for open-ocean use on Navy submarines, guided missile frigates and aircraft carriers for the Tomahawk Cruise and Evolved Sea Sparrow Missiles (ESSM). The Navy-chosen AMPTEC Ordnance/Igniter Tester contains a number of pushbutton switches, toggle switches, and rotary trim potentiometers (zero pot) that are exposed to high moisture conditions (i.e. rain, ocean salt water spray) and therefore must be protected against the elements. A proven method for making these components highly water resistant was essential. APM HEXSEAL silicone boots protected the Ordnance Tester's switches and zero pots and maintained the product's electrical safety, reliability and helped assure the tester's measurement integrity.

**Solution:** AMPTEC RESEARCH chose APM's N5040R all-weather silicone rubber switch boots to seal the tester's pushbutton switches. And, to protect their power toggle switch and zero trim pot, they chose APM's N5030S and N9040 Series rotary shaft boots. APM HEXSEAL's silicone rubber boots seal the Ordnance Tester's panel holes through which each electronic component is mounted.

*To obtain further information on this subject, ask for Catalog HEX-200.*



## **APM HEXSEAL® Sealing Specialists**

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