

Use of Transpac[®] Transducer Devices in MRI

The Transpac Transducer (TPIV) is manufactured using 24 AWG (American Wire Gage) pure copper wire in the cable and gold-plated copper leads of the transducer chip. The Integrated Transpac (TPIT) device uses similar copper wire with a tin coating. None of these materials have ferromagnetic properties, which would otherwise cause a magnetic or heat reaction during the MRI procedure. However, these materials do have the potential to cause an artifact; therefore, care should be taken to ensure that the transducer and lead are away from the field of view at the time of imaging.

These types of devices are classified as “MR-conditional” according to the American Society for Testing and Materials (ASTM) International, Designation: F2503-05, *Standard Practice for Marking Medical Devices and Other Items for Safety in the Magnetic Resonance Environment*. This standard describes a series of testing for ferromagnetic reaction and a review of materials. A technical review of the Transpac materials indicates that MR Conditional is an appropriate classification for these devices. The Transpac may therefore be considered compatible with MRI procedures, including abdominal and thoracic MRI.

If there are further questions or concerns, please visit our website at www.icumed.com or contact the corporate offices at 949-366-2183 or 800-824-7890.

Technical Services
ICU Medical Inc.