



ULTRA-PERFORMANCE INSTANT ADHESIVE IMPROVES TRACEABILITY, RELIABILITY AND PRODUCTIVITY OF SURGICAL INSTRUMENTS

SITUATION

A global medical device manufacturer was experiencing challenges with their current process of attaching RFID (Radio Frequency Identification) tags to their surgical instruments. The RFID tags are critical to ensuring the surgical instruments are identifiable and locatable throughout their usable life in a variety of healthcare settings. The device manufacturer was using an epoxy-based adhesive that presented several challenges including but not limited to: messy mixing process, long fixture and cure time, inability to apply with accuracy and efficiency, and poor bond performance following repeated autoclave exposure.

LOCTITE® SOLUTION

LOCTITE® 402™ Ultra Performance Instant Adhesive was the solution:

- Simple, one-part, room temperature cure with rapid development of handling strength
- Ability to meet and exceed the repeated autoclave exposure at 110°C
- High bond strengths to the metal instruments and polymer RFID tags, plus enhanced durability/impact resistance in the event that the devices are dropped
- Testing to ISO 10993 biocompatibility protocols for use in disposable and reusable medical devices
- Easy to apply and with improved accuracy and speed

BENEFITS

- Enhanced reliability with higher temperature resistance for limited repeat autoclave exposure
- Increased productivity with rapid fixture speed, one-step process (no mixing/metering), and semi-automation equipment
- Enhanced end-use device safety with medical device grade adhesive
- Minimized waste with one-part adhesive formula

PRODUCT	SIZE	IDH
LOCTITE® 402™	20 GRAM	2714628
	500 GRAM	2712746

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