

Materials Compatibility Guide

REVOXSM Contract Sterilization Services use a proprietary vaporized peracetic acid/hydrogen peroxide technology to achieve microbial kill. This system is well characterized for materials compatibility. The vapor chemistry is compatible with the vast majority of materials that are used in medical devices and packaging.

Metals ¹	Rating
304 Stainless Steel	A
316 Stainless Steel	A
430 Stainless Steel	A
Aluminum Type 1100 (anodized)	B
Aluminum Type 1100 (bare)	B
Aluminum Type 2024 (anodized)	A
Aluminum Type 2024 (bare)	C
Aluminum Type 6061 (anodized)	A
Aluminum Type 6061 (bare)	A
Bare Copper	C
Hastelloy	A
Nitinol	A
Mild Steel	C
Naval Brass	NR
Titanium (Medical Grade)	A

Adhesives/Elastomers/Coatings ³	Rating
EPDM	B
Epoxy painted gypsum board	A
Methacrylate adhesive	A
Polyurethane painted gypsum board	A
Urethane acrylate adhesive	A

Plastics ²	Rating
ABS	A
Acrylic	A
C-PVC	A
Delrin	A
HDPE	A
Polyacetal	A
Polyamide	A
Polycarbonate	A
Polyester	A
Polypropylene	A
Polysulfone	A
Polyurethane	A
PTFE (Teflon)	A
PVC	A
PVDF	A
Silicone	A
Teflon	A

Note: A = Good compatibility, recommended for use; B = some appearance changes are possible, not recommended for repeated exposure; C = appearance changes are likely, functional changes are possible; NR= not recommended

Circuit boards, personal computers, computer monitors, and electronic devices have also been tested with 30 sterilization cycles with no adverse effects on materials and functionality.

This guide provides general compatibility information on various materials. Data such as this may not cover all conditions of concentration, temperature, humidity, impurities and aeration. Please contact us to discuss the specific conditions of use to determine materials compatibility of actual product samples.

Please contact us if your product contains materials that are not listed in the tables above.

¹Test methods follow ASTM G31-72 (2004), "Standard Practice for Laboratory Immersion Corrosion Testing of Metals". For titanium and other metals used in medical devices, test methods are designed to comply with AAMI TIR-17.

²Test methods comply with ASTM S543-06, "Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents"

³Test methods comply with ASTM D896-04(2010)e1, "Standard Practice for Resistance of Adhesive Bonds to Chemical Reagents".