

Contec® Healthcare TB1-3300™ Disinfectant Material Compatibility Testing

Goal To determine the surface impact of Contec® Healthcare TB1-3300™ Disinfectant through visible observation over 6 weeks on a variety of common surfaces found in cleanroom, sterile compounding and industrial facilities.

Testing Protocol Twenty-one coupons, each of a different material, were suspended from a holding board over a tray of Contec Healthcare TB1-3300 Disinfectant. The holding board was lowered into the tray so that 1-inch of each coupon was in contact with Contec Healthcare TB1-3300 Disinfectant. The coupons remained in the tray for 10 minutes, after which they were removed and either left to air-dry or dried with a polyester/cellulose wipe wetted with tap water.

These steps were repeated three times weekly over the 6-week testing period on Monday, Wednesday, and Friday.

Results The degrees of material degradation are as follows:

No degradation (N): the coupon displayed no signs of wear or damage over the 6-week period and could be comparable to the virgin coupon.

Mild degradation (M): the coupon displayed mild damage or wear at the outset of the testing period, but the degradation did not become more serious over the 6-weeks.

Significant degradation (S): the coupon displayed significant changes or deterioration from the outset of the 6-week period.

The following table presents the degree of material degradation for each coupon and drying method when exposed to Contec Healthcare TB1-3300 Disinfectant.

Material	Compatibility (Air-dried)	Compatibility (Wetted Wipe)
Aluminum, Al 6061	N	N
Copper, CDA 122	S	M
Steel Alloy, C4340	S	M
Galvanized Steel	N	N
Stainless Steel, 304	N	N
Stainless Steel, 316	N	N
Ductile Cast Iron	S	M
Tin/Lead alloy, 60 Sn/40 Pb	N	N
Anodized Aluminum, Al 6061	N	N
Plastic polymer, ABS	N	N
Rubber, Buna N	N	N
Clear Vinyl	N	N
CPVC	N	N
Polymer, Delrin®	N	N
Rubber, EPDM60	N	N
Polymer, Kynar®	N	N
Polycarbonate, Lexan™	N	N
Neoprene	N	N
Polystyrene	N	N
Polycarbonate	N	N
Polyurethane	N	N
Acrylic	N	N

Conclusion Using a wipe wetted with tap water after cleaning with Contec Healthcare TB1-3300 Disinfectant is recommended.

Non-reactive coupons that were dried with a wetted wipe displayed no evidence of residue in contrast to those left to air-dry. Reactive coupons dried with a wetted wipe exhibited a more limited reaction than those that were air-dried.