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## **BSS7434: Boeing Material Compatibility test for Protectus Ultimate**

Protectus Ultimate has been tested at 3% RTU and is **compliant** with **BSS7434** specification to be used as a compatible disinfectant in Aircraft.

### **What is BSS7434?**

**BSS7434** is Boeing Specification Support Standard for testing the Chemical Compatibility of Cleaning Products and Interior Parts / Materials of Commercial Transport Aircraft. To be compliant with this standard, a product must pass a series of tests according to ASTM standards mentioned below:

**ASTM F1110 – Sandwich corrosion Test:** Evaluating the corrosivity of aircraft maintenance chemicals, when present between faying surfaces (sandwich) of aluminium alloys commonly used for aircraft structures.

**ASTM F483 – Immersion Corrosion Test:** Determination of the corrosiveness of aircraft maintenance chemicals on aircraft metals with time under conditions of total immersion by a combination of weight change measurements and visual qualitative determination of change.

**ASTM D471 – Rubber Test:** This test method covers the required procedures to evaluate the comparative ability of rubber and rubber-like compositions to withstand the effect of liquids.

**ASTM F502 – Painted Surface Test:** This test method covers determination of the effects of cleaning solutions and chemical maintenance materials on painted aircraft surfaces.

**FAR 25 – 853 – Fabric and Carpet (Flammability):** Test for flammability according to Federal Aviation Regulation.

**ASTM F484 – Polycarbonate Craze Test:** This test method covers the procedure for determining the crazing effect caused by a liquid or semi-liquid on transparent three types of acrylic plastic materials under bending stress.

**ASTM D93 – Flash Point:** These test methods cover the determination of the flash point of petroleum products in the temperature range from 40 °C to 370 °C by a manual Pensky-Martens closed-cup apparatus.

**SABS 636:** Protectus Ultimate has also been tested for its corrosivity on steel and aluminium in accordance with SABS 636: 2013, Edition 4:1. The loss in mass test strip (in mg/100mm<sup>2</sup>) showed no evidence of pitting, etching or discolouration and was found to be compliant with the requirement of the specification. The product also passed the storage stability as specified in the test.

Additionally, Protectus Ultimate has also been tested in-house following Chemical Immersion Test for 2 weeks using Polyurethane, PET, Nylon, Acetal and PVC, and found to be compatible with these materials tested.