



AIRCRAFT HYGIENE

Leading the way to reduce the spread of viruses and improve health concerns on-board aircraft.



WHAT'S THE ISSUE?

By law, an individual may be owed a **duty of care** by another to ensure that they do not suffer any unreasonable harm or loss. If such a duty is found to be breached, a legal liability is imposed upon the duty-owner, to compensate the victim for any losses they incur. The idea of individuals owing strangers a duty of care – where beforehand such duties were only found from contractual arrangements – developed at common law within the 20th century.



OUR DUTY OF CARE TO PASSENGERS.

- ▶ Do you provide the best protection for your passengers and crew?
- ▶ Current methods of aircraft sterilizing are out of date and have been dramatically surpassed with new Nano technology.



HOW DO VIRUSES SPREAD?

- Airborne
- Contact



CURRENT CLEANING METHODS USING DISINFECTANTS

- ▶ How long do they last - Minutes!
- ▶ Once the surface has been disinfected, re-infection occurs almost immediately!





MOST LIKELY AREAS?

Toilets (Viruses & Bacteria)

Galley (Bacteria)

Tables (Viruses & Bacteria)

Door handles (Viruses & Bacteria)

All contact areas!





SOLUTION

10 Day surface protection against most viruses and bacteria

10 DAY PROTECTION
Against Bacteria,
Most Viruses
and Fungus.

Fraser's
AEROSPACE

www.frasersaerospace.com

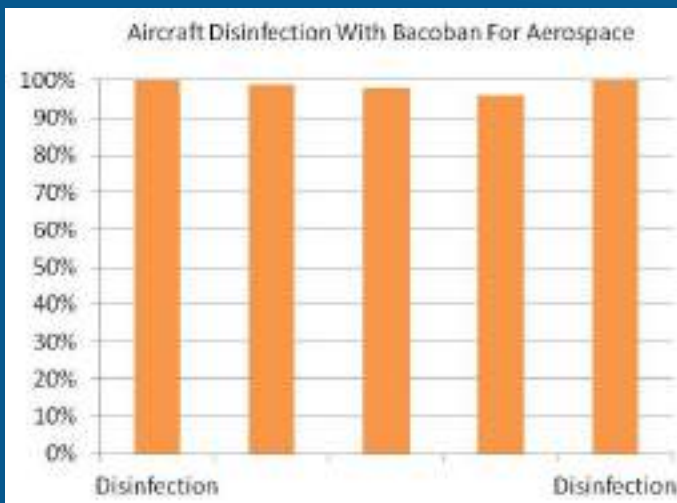
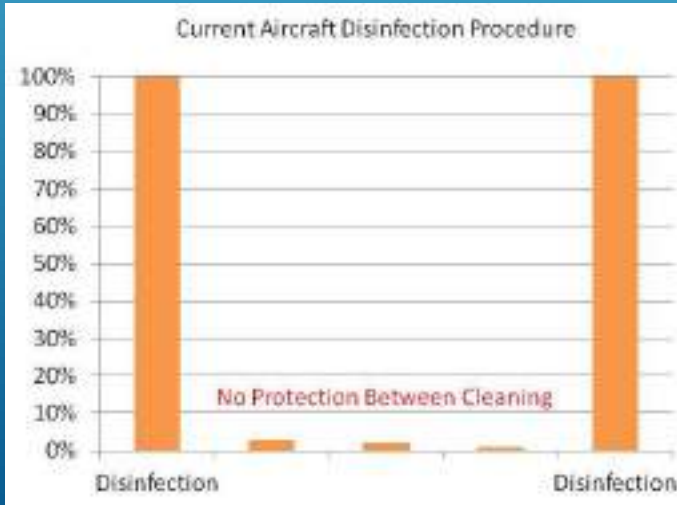


BENEFITS

- Ready-For-Use Disinfectant / Cleaner.
- Effective Long-Term Protection – **10 Days.**
- Does Not Contain Aldehyde or Phenol.
- Destroys Bacteria, Fungus and Viruses.
- Approved For Use On Aircraft.
- Water Based.
- Leaves An Easy Clean Coating.

CONTINUOUS DISINFECTION

Existing methods of disinfection last for a brief time. Re-infection can occur almost immediately.



Bacoban for Aerospace fills in the gaps between disinfections continuously destroying viruses and bacteria.

MICROBIOLOGICAL EFFECTIVENESS



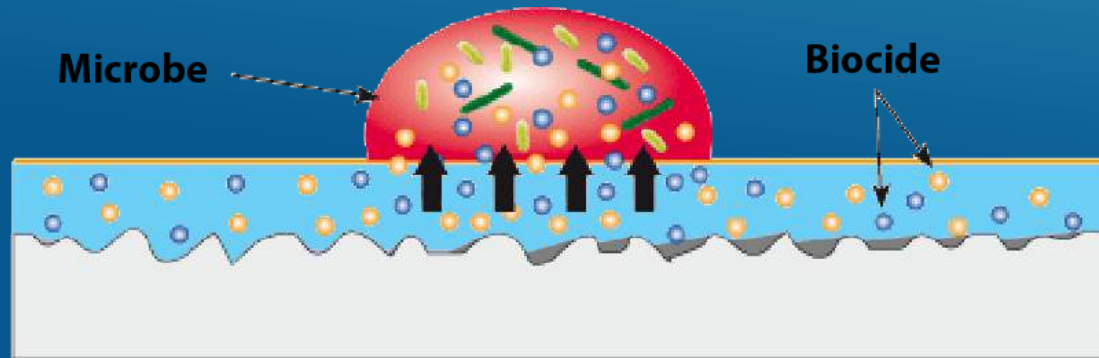
10 DAY PROTECTION
Against Bacteria,
Most Viruses
and Fungus.

Bacban for Aerospace is a fully approved product which will provide **10 days** continuous protection on board an aircraft!

ASTM E 2180 Certified!

HOW IT WORKS

The technology used here is the sol-gel process that develops a solid gel phase on the basis of a liquid phase. The biocides used to kill germs are embedded in the porous structure of the developing sponge-like sol-gel and are washed out again when coming into contact with water (bacteria, enveloped viruses and fungus are always surrounded by a water shell).





AVIATION APPROVALS

Conforms to and exceeds AMS 1451B.

Conforms to and exceeds AMS 1452B.

Conforms to and exceeds AMS 15550B



Bacteria:

Staphylococcus aureus
Pseudomonas aeruginosa
Escherichia faecalis

Fungus:

Aspergillus niger
Candida albicans

Viruses:

HIV
Hepatitis B
Hepatitis C
Herpes
Influenza
H5N1 (Avian Flu)
H1N1, (Swine Flu)
BVDV (Bovine Diarrhoea Virus)
Norovirus
Rotavirus
Coronavirus

KEY MICROBIOLOGICAL EFFECTIVENESS

The logo for Bacoban For Aerospace features the word "Bacoban" in a large, bold, dark blue font. Below it, "For Aerospace" is written in a smaller, lighter blue font. The text is set against a circular background that is split into two halves: the left half is a solid light blue, and the right half is a light blue color with a grid of small, orange and white dots, resembling a molecular or digital structure.

Bacoban
For Aerospace

Tested according to ASTM E 2180.
Test certification results available on request.

EFFICACY

Tested in accordance with DGHM guidelines (high organ. contamination):

1.5 %, 15 min.; 2.0 %, 5 min.

Tested according to EN guidelines:

DIN EN 1040: 0.25 %, 5 min.

DIN EN 1275: 0.25 %, 5 min.

DIN EN 1276: 0.75 %, 5 min./0.50 %, 15 min.

DIN EN 1650: 0.50 %, 5 min./0.25 %, 15 min.

DIN EN 13697: 0.50 %, 15 min.

EN 13737: 1% 5 min

DIN EN 13624: 1% 5 min

DIN EN 14561: 3% 5 min, 0,5% 60 min

DIN EN 14562: 0,5% 60 min

Test according to DVV guideline: *limited virucidal efficacy; 1.0 %; 5 min.

(HIV, HBV, HCV, herpes, influenza, also bird flu, BVDV, vaccinia)

Rotavirus: 0.1 %, 5 min.

Adenovirus: 2.0 %, 240 min.



Bacoban
For Aerospace

The logo features the word "Bacoban" in a large, bold, dark blue font. Below it, "For Aerospace" is written in a smaller, dark blue font. A stylized graphic of a globe or sphere is positioned behind the text, with a grid of small dots and a curved line passing through it.

Fraser's
AEROSPACE

The logo consists of the word "Fraser's" in a large, serif font, with "AEROSPACE" in a smaller, sans-serif font below it. A stylized white airplane silhouette is positioned behind the text.

www.frasersaerospace.com



APPLICATION

- ▶ Convenient easy-to-use spray.
- ▶ Simply spray onto surfaces,
- ▶ wipe, allow to dry and non – hazardous
- ▶ Nebuliser / Fogger



NEBULISER / FOGGER



COMPOSITION:

100 g solution contain: Benzalkonium chloride 26 g, sodium pyrithione 2.5 g, polycondensates, perfume substances, purified water, formaldehyde-free, phenol-free. Ingredients according regulation (EC) No 648/2004: 15 % or over but less than 30 % cationic surfactants, disinfectants, perfumes (Linalool, Citral, Geraniol, Citronellol)

BACOBAN FOR AEROSPACE IS CERTIFIED AS A CLASS 2A MEDICAL DEVICE AND IS USED IN HOSPITALS. ITS EFFECTIVENESS HAS BEEN PROVEN TO STRINGENT CLINICAL STANDARDS.

