# FAQs

airpurity® Freetex

## GENERAL

### WHAT IS AIRPURITY?

- Airpurity is an eco-friendly non-woven fabric (PVC free).
- Airpurity has an anti-microbial (anti-bacterial and anti-virus), air purification and deodorising capabilities built into the sheet.
- Airpurity is manufactured in Korea.

### HOW DOES AIRPURITY WORK

- It has a mineral coating that acts as anti-bacterial and anti-viral agent. The core substance of the mineral coating is a metal oxide, which is the basic mechanism to create an anti-bacterial sheet. The metal oxide has properties, which are effective in killing microbial adhesion, proliferation and growth, killing off the bacteria.
- It kills and inhibits germs whilst removing odours
- For example, when you adhere Airpurity to a door handle, when touched, it becomes an anti-microbial sticker for your hands. The unique surface draws moisture, oil, germs and pollutants from your hands into deep spaces in the sheet, creating a black hole for the germs, killing the germs instantly, sterilising your hands, preventing transmission to another person

### IS AIRPURITY 2 SHEETS WITH 2 SETS OF FUNCTIONS ?

- No, Airpurity is one sheet with anti-bacterial, anti-viral and air purification/deodorisation all in one.

### IS AIRPURITY TRADEMARKED IN AUSTALIA?

- Trademark #2098008 - AIRPURITY by Ball & Doggett Pty Limited
  Trademark #2098009 - AIRPURITY TOUCH by Ball & Doggett Pty Limited

## PRINT RELATED

### IS AIRPURITY A DIRECT PRINTABLE FILM?

- Yes (no lamination required)

### WILL INK ON THE SHEET AFFECT THE AIRPURITY KEY FEATURES?

- No, it will not affect the anti-bacterial, anti-viral, air purification and deodorisation properties

### WHAT PRINT TECHNOLOGY WORKS ON AIRPURITY?

- Eco Solvent/Solvent
- Latex
- UV Inkjet

### BASIC PRODUCT SPECIFICATION

- 1270mm x 30m roll
- Removable adhesive
- 300mircon / non woven fabric
- 80micron PE backing liner

### IS AIRPURITY EASY TO INSTALL/ EASY TO REMOVE?

- With a luxury feel, durable and thick textured finish, allowing for easy installation and removability, leaving no residue behind once removed. The adhesive is a removable, repositionable adhesive, making it easy to install and reposition if required.

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## HEALTH & SAFETY

### WHAT DOES THE TERM 'ANTI-MICROBIAL' MEAN?

- To kill and/or slow the spread of micro-organisms.
  Micro-organisms including bacteria, viruses, fungi (mould and mildew) and protozoa. Protozoa are tiny, single cell microbes that cause disease and can only be seen under a microscope.

### WHAT DOES THE TERM 'ANTI-VIRUS' MEAN?

- The key difference between bacteria and virus is – bacteria are free-living cells that can live inside or outside a body, while viruses are a non-living collection of molecules that need a host to survive.
- Anti-Bacteria and Anti-Virus are somewhat similar in their function and mechanism.
- Airpurity is accredited for anti-bacterial and anti-viral.

### CAN AIRPURITY IRRITATE THE SKIN?

- When touched, the nucleus of the germs are destroyed, causing no irritation to the skin.

### HOW DOES THE AIR PURICATION/DEODORISATION FUNCTION WORK?

- Attributed to new technology for air purification and deodorisation, Airpurity absorbs and eliminates odorous molecules simultaneously through the unique polymer structure built into the sheet.

### WHAT TYPE OF ODOURS CAN BE ELIMINATED?

- Foot odour, perspiration, food waste, urine, formaldehyde (a colourless chemical that has a strong pickle-like odour that is commonly used in the manufacturing process of many household items like furniture and flooring glue), ammonia (a colourless gas with a very pungent odour). Ammonia is commonly used in cleaning chemicals and smelling salts and many more strong gases/odours.

## PRODUCT LIFE SPAN

### HOW LONG WILL THE ANTIBACTERIAL /ANTI-VIRAL LAST?

- 10,000 touches before it begins to lose its effectiveness

### HOW LONG WILL THE AIR PURIFICATION & DEODORISATION PROPERTY LAST?

- For general application, it will normally be adhered onto a wall, and the longevity is a minimum of 12-18 months.

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# CERTIFICATION/TESTING

## HAS AIRPURITY BEEN TESTED ?

- Anti-bacterial and air purification has been conducted by a testing lab called FITI Testing & Research Institute, who are supported and backed by the Korean Government.

  FITI has been operating since 1965, and is a globally recognised testing and authentication institution, operating in 13 countries worldwide. FITI has state of the art equipment providing testing, inspection, audit and certification services. Airpurity is a worldwide recognised product, the manufacture required a third party lab which was globally recognised and respected, thus FITI was selected.
- Anti-virus has been conducted at a testing solution lab, preventing infections and transmission, called ALG (Analytical Lab Group) in Minnesota, US. ALG specialises in comprehensive testing in the anti-microbial, medical advice, biotech and healthcare services throughout the US.
- Approved and Certified FDA - LRJ D427574

## WHAT TESTING WAS CONDUCTED?

- **ANTI-MICROBIAL TEST** ISO 22196 | JIS Z 2801:2010
  Specifies the method of evaluating the anti-bacterial activity of anti-bacterial plastics and other non-porous surfaces and products.
- **AIR PURIFICATION TEST** FTM-5-2
  Specifies the efficiency of neutralising the air from odorous matter
- **ANTI-VIRUS TEST** JIS Z 2801 | ATCC VR 740
  Specifies the method of evaluation of the anti-virus activity

## WHAT GERMS WAS AIRPURITY TESTED AGAINST?

- Staphylococcus Aureus > Click here to view certificate
- Klebsiella Pneumonia > Click here to view certificate
- Escherichia Coli > Click here to view certificate
- Salmonella > Click here to view certificate

## WHAT VIRUS WAS AIRPURITY TESTED AGAINST?

- Human Coronavirus strain 229E > Click here to view statemen
  COVID19 is a respiratory virus, it can be transmitted air bourne (coughing or sneezing). Airpurity is able to absorb the virus on to the media surface and killing all germs safely.

## DEODORISATION TESTING ON AIRPURITY

- Deodorisation for Trimethylamine (organic compound) > Click here to view certificate

## ARE THEIR SUPPORTING CERTIFICATES ?

- Yes (see above links)

## DO WE HAVE ANY SUPPORTING LOCAL TESTINGS?

- We are currently in discussions with a government accredited lab in Silverwater, Sydney called Eurofins. Results for these test will be available in due course.

## DOES IT NEED TGA APPROVAL?

- We have confirmed with TGA (Therapeutic Goods Administration) based in Canberra; Under schedule 1 of Section 5, Item 8, Airpurity has an exemption under ARTG (Australian Register of Therapeutic Goods), as it is not making any Therapeutic claim.

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## MAINTAINENCE

### CAN I CLEAN THE SURFACE OF AIRPURITY?

- It is encouraged to clean the surface after every 1000 touches with a general water base household cleaning solution (damp sponge with warm soapy water)

### CAN I USE A CLEAN 'CHEMICALS' ON AIRPURITY?

- It should not affect the product features, but we recommend the above method.

### WHAT HAPPENS IF WATER OR ALCOHOL IS SPILT?

- The Airpurity features will not be effected after spillage. It is recommended to allow the surface to dry naturally

## AIRPURITY RATIO TO AREA OF SPACE

### A GUIDE TO SQM REQUIRED FOR AIR PURIFICATION/DEODORISING PERFORMANCE

| $m^2$ | Width | Length | Height | $m^3$ | A3 Size | A4 Size | A5 Size |
|---|---|---|---|---|---|---|---|
| | | | | | sheets req. | sheets req. | sheets req. |
| 16.5m | 3.79 | 4.4 | 2.7 | 45.0 | 3 | 6 | 11 |
| 9.9m | 3.49 | 2.92 | 2.7 | 27.5 | 3 | 5 | 8 |
| 15.5m | 5.34 | 2.92 | 2.7 | 42.1 | 3 | 9 | 10 |
| 9.9m | 3.18 | 3.2 | 2.7 | 27.5 | 3 | 5 | 8 |
| 14.2m | 4.38 | 3.2 | 2.7 | 37.8 | 3 | 5 | 9 |
| 17.9m | 3.79 | 4.72 | 2.7 | 48.3 | 3 | 6 | 11 |
| 20.5m | 6.84 | 3 | 2.7 | 55.4 | 3 | 7 | 12 |
| 13.6m | 1.5 | 9.12 | 2.7 | 36.9 | 3 | 5 | 9 |
| 4.3m | 2.46 | 1.7 | 2.7 | 11.3 | 2 | 3 | 5 |
| 1.9m | 1.39 | 1.5 | 2.7 | 5.6 | 2 | 3 | 4 |
| 2.6m | 1.5 | 1.7 | 2.7 | 6.9 | 2 | 3 | 5 |

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## BENEFITS FOR END USER

- Prevent the spread of germs
- Germs & bacteria are destroyed on contact with the surface of Airpurity and no skin irritation
- Promote good hygiene practice
- Stops community spread
- Absorbs and eliminates bad odour including perspiration, ammonia, formaldehyde, food waste
- Fills the space with clean air
- Prevention is better than cure

## BENEFITS FOR PRINTER

- Direct printable media
- Easy to apply, easy to remove
- 300micron thick film for easier handling
- Removable adhesive for easy removal or repositioning with no residue on the surface
- Product life span
    - Anti-Bacterial/Viral surface 10,000 touches
    - Purification/Deodorisation up to 12-18months
- Accredited media for Anti-bacterial/viral, neutralise bad odour and purifies the surrounding air

## APPLICATION

Airpurity can be used across a number of community areas including:

- Hospitals
- Age Care Centres
- Schools/Learning Centres
- Retail
- Gymnasiums
- Public bathrooms
- Cafe/Restaurants

Public Touch points including:

- Supermarket trolleys
- Door handles
- Bus/Train rails
- Lifts/Escalators
- POP Counters
- Desk pads
- Hand rails
- Phone covers
- Placemats
- Food court dining table
- Touch Screens (Airpurity Crystal)

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## WHAT IS AIRPURITY CRYSTAL?

### IS THERE A CLEAR VERSION AVAILABLE ?

- Yes. It is called Airpurity Crystal. A clear direct printable film with anti-microbial feature, however the anti-microbial property requires a longer period between activation (min 60mins) unlike Airpurity (white) Freetex which is instantaneous.

  Air purification and deodorisation features are limited with Airpurity Crystal.
  The anti-bacterial and anti-viral property should be the main selling feature. It can adhere to surfaces such as touch screens, elevator/life buttons, escalators and any surface that require protection with a clear laminate

### STOCKING PROGRAM FOR AIRPURITY CRYSTAL ?

- Airpurity Crystal is available via air freight order only.

### WHAT IS THE LIFE SPAN OF AIRPURITY CRYSTAL ?

- 3000 touches or 3 months

### WHAT TYPE OF ADHESIVE WILL AIRPURITY CRYSTAL HAVE?

- We have a removable and permanent

### HOW THICK IS THE AIRPURITY CRYSTAL FILM?

- The film is thinner in micron than the regular Airpurity.

### COULD I USE AIRPURITY CRYSTAL OVER A TOUCH SCREEN DEVICE?

- Yes, Airpurity Crystal will not effect the 'touch screen' performance.

### WHERE CAN AIRPURITY CRYSTAL BE USED?

- Public transport
- Sporting Complex
- Government departments
- Clubs / Bars
- Local councils
- Real Estate
- Airports
- Schools/Universities
- Hotels/Resorts
- Retail/Shopping centres