

# Technical Data Sheet



Air Purity Freetex is an anti-bacterial and deodorization non woven fabric with Pigment printing & Pressure sensitive adhesive. By using the non woven fabric, it feels like Canvas and has lot of porous layers especially.

## FEATURES

- Airpurity freetex is an eco-friendly material that is applied with new technologies for deodorization and air purification.
- By catalytic action, it inhibits germs and removes all orders such as sweat smell, foot smell, and formaldehyde from carcinogen.
- 3A funtions - Air clean & deodorant effect, Anti-bacterial effect, Advertising effect
- High resolution and color brilliant with Pigment ink.
- Stick sheet type with Removal & Repositionable PSA. (NO residue)



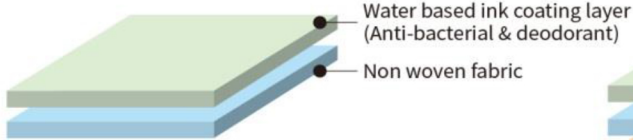
Texture



Odor Free + Anti-bacteria

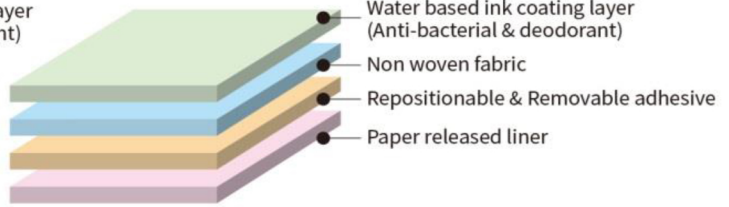
## PRODUCT STRUCTURES

AP300



Water based ink coating layer (Anti-bacterial & deodorant)  
Non woven fabric

AP500



Water based ink coating layer (Anti-bacterial & deodorant)  
Non woven fabric  
Repositionable & Removable adhesive  
Paper released liner

## SPECIFICATION

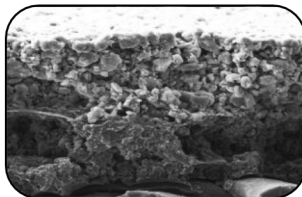
H.S. code : 5603.13

Property	Unit	Air Purity Freetex 330	Air Purity Freetex Removal 33	TEST METHOD
Product Code		AP300	AP500	
Apperance	-	Matte	Matte	ASTM D645
Base film	$\mu\text{m}$	300 $\mu\text{m}$ Non woven fabric	300 $\mu\text{m}$ Non woven fabric	ASTM D645
Total Thickness	$\mu\text{m}$	310	505	ASTM D645
Total Weight	$\text{g}/\text{m}^2$	165	400	ASTM D646
Peel strength	$\text{g}/\text{inch}^2$	240 at 20 min.		ASTM D903
		220 at 24 hour		
Released liner			80 $\mu\text{m}$ PE coated paper liner	
Ink		Pigment / Latex	Pigment / Latex	
Finished roll Size	liner meter	1.270 m width x 30 m length	1.270 m width x 30 m length	

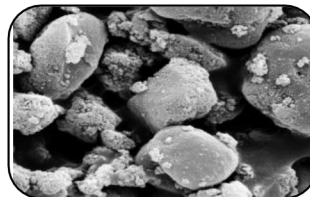
## MECHANISM

By using porous materials & transition metals inorganic materials, it laminates on non woven fabric for wide spread function coating layer.

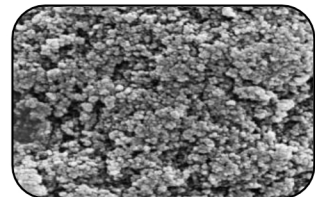
### Air purity Freetex SEM pictures



(a) x 2000



(b) x 20000



(c) x 100000

#### 1) Deodorization

Lots of odor molecular in the air absorbs on the airpurity freetex on the surface => After taking Catalytic action, the odor is resolved by the airpurity coating layer

#### 2) Anti-bacterial

Basic principle is an Oxidation reaction in which various kinds of harmful germs touch on the the air purity surface.

It inhibits germs' cell form and it prevents cell proliferation.