



**MANUFACTURER AND DISTRIBUTOR OF :**

CLEANROOM AND STATIC SAFE PACKAGING MATERIALS AND EQUIPMENT,  
CLEANROOM GARMENTS AND MATERIALS, CONTAMINATION CONTROL  
PRODUCTS, MEDICAL DISPOSABLES, FURNITURE AND ESD FLOORING  
MATERIALS AND INSTALLATION.

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## Corporate Profile

**Established in 2007**  
**Leading Manufacturer & Distributor of**  
**Plastic Packaging & Cleanroom Products**

Provide value added services  
& quality products to our customers

Aim to be the Trusted & Preferred  
business partner of our customers

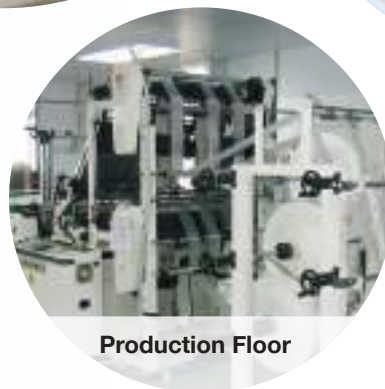
Growing manufacturing & distribution  
network in Singapore, Malaysia  
Indonesia, Thailand & China.

Wide Range of products & services  
for Electronics, Wafer, Semi-conductors,  
Biomedical, Pharmaceutical  
& Medical Industries.

*We Are A Bunch Of Positive People  
at Your Service!*

## Expertise | We Manufacture

### Cleanroom Class PE Bag



## Expertise | We Manufacture

### Cleanroom/ ESD Garments & Uniform



Jumpsuit



Smock



Cleanroom Boots



Lab Coat



Medical Uniform



Uniform

### Facilities



Factory in Thailand



Factory in Indonesia



Production Floor

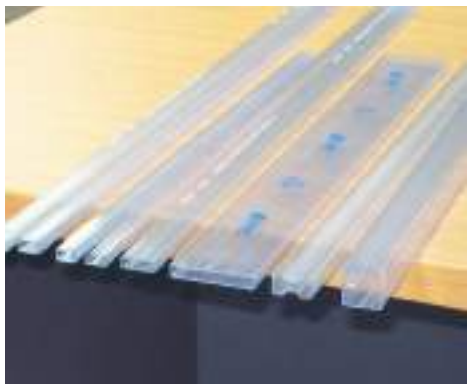


Production Floor

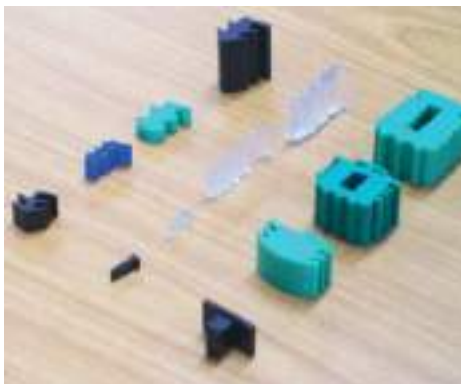


## Expertise | We Manufacture

### Extrusion Tubes & Profiles



Shipping Tube (IC Tube)



Stopper



PP Tube



PE Cap



Plastic Profile



Flexible Tube

### ESD Document/Badge Holders/ Files



Clear Document



Static Dissipative Page Protector



Cleanroom ESD Files

### Facilities



Factory in Malaysia



Production Floor



Silk Screen Printing Process



High Frequency Welding Process

## Expertise | We Manufacture

### Plastic Injection Moulding



Injection Moulded Trays



Injection Moulded Structures



Injection Moulded Parts

### Vacuum Foaming Trays



Vacuum Foaming Part



Vacuum Foaming Trays



Vacuum Foaming Trays

### Carrier Tape & Reels



Carrier Tape & Reels



Carrier Tape & Reels



Cover Tapes

### Facilities



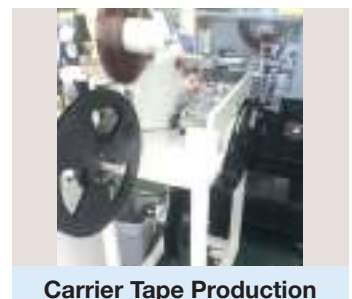
Production Floor



Injection Moulding  
Production



Vacuum Foaming Production



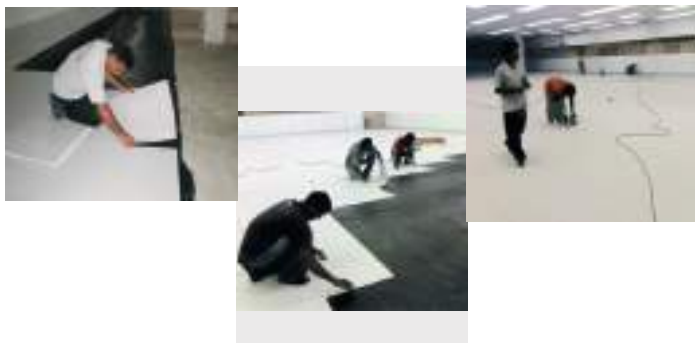
Carrier Tape Production



## Expertise | We Specialise

### ESD Floor Materials & Installation

#### ESD Floor Tiles Installation



#### Welding Process



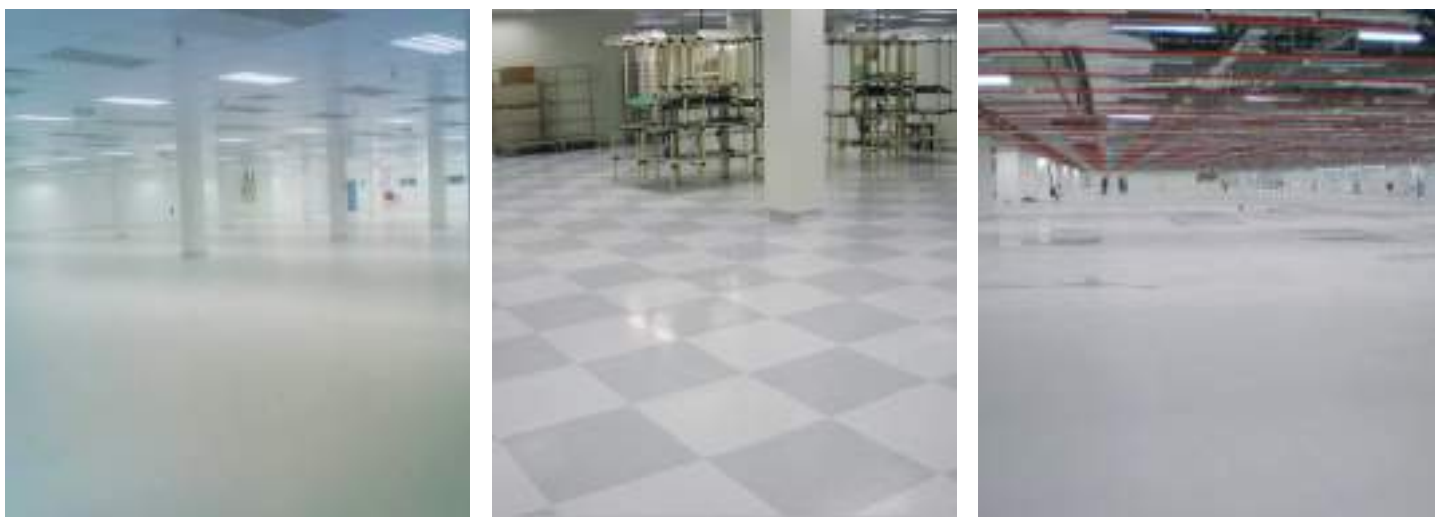
#### ESD Floor Testing



#### Skirting Workmanship



### Examples of Our Completed Large Scale Project





## Expertise | We Specialise

### ESD Tester with Data Logging Flap Gate / Turnstile System

Turnstile System



Flap Gate System



### Turnstile System



### ESD Tester with Data Logging


- Connect to card reader
- LCD/LED Display
- Web-Browser Based Data Logging Software
- Connect to magnetic door lock
- Buzzer
- Link up to 100 ESD testers
- Connect to Biometric reader
- Infrared sensor
- Email notifications

## Expertise | We Specialise

### Washable Sticky Mat

These washable sticky mats can be used and reused again after wash for up to 2 years and more.


**Dycem** (United Kingdom)  
The Effective Dust Control Solution For Cleanroom Environment



After 0 hours of use  
99.9% EFFECTIVE

After 1 hour of use  
50% EFFECTIVE

After 2 hours of use  
25% EFFECTIVE




### STEP-MAT / LIFT-MAT ( JAPAN )

Protect dust Environment

Block the dust in the factory by the self-adhesive urethane gel.




### Vacuum Floor Mat




**Standard Sizes**  
800 x 700 mm  
600 x 1100 mm  
800 x 1100 mm  
1100 x 1100 mm  
800 x 2100 mm

Note : Height 25mm



Vacuum suction remove dirt from sole



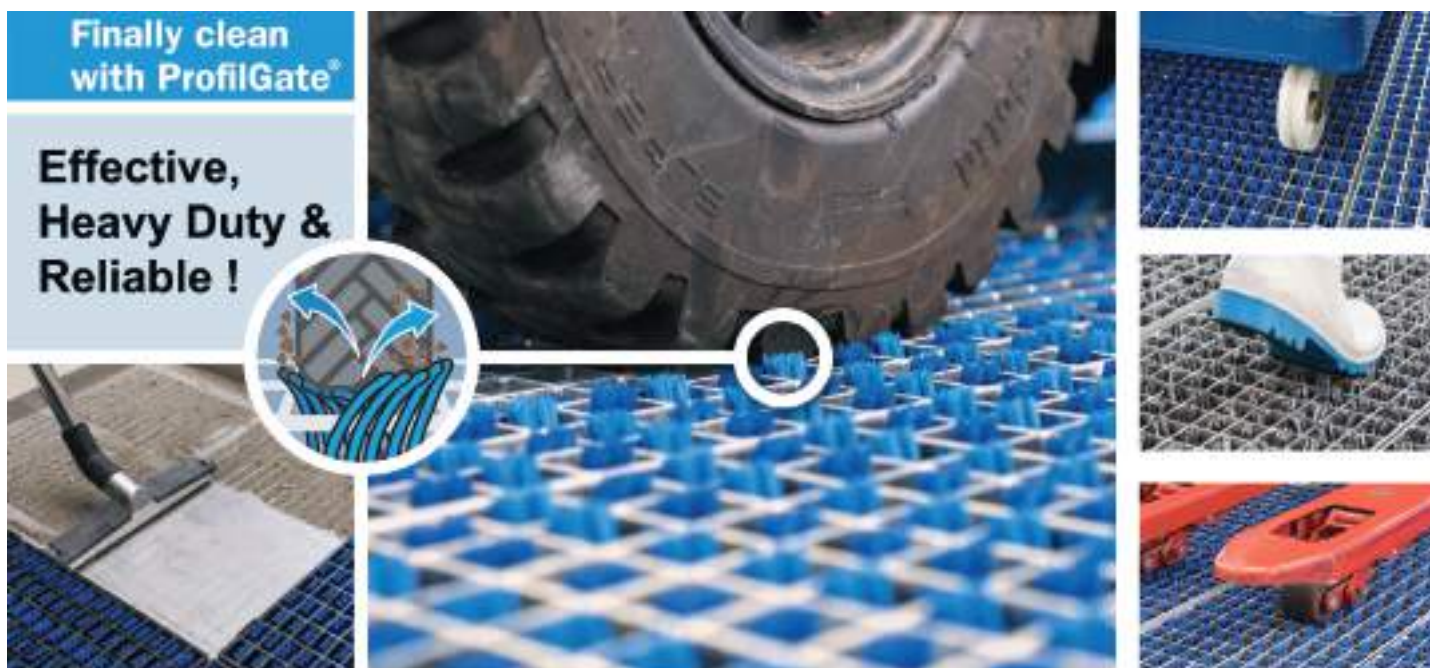


## Expertise | We Specialise

### Profilgate System

Finally clean  
with ProfilGate®

Effective,  
Heavy Duty &  
Reliable !



ProfilGate is made of heavy duty grates that can withstand load of up to 30 tons ! The particular angle of the special brushes automatically clean all kind of tire, wheel, castor and shoes sole treads mechanically when crossing the grates.

### Shoe Cleaning Machines

#### Wet Cleaning



SWC-600



SWC-1100

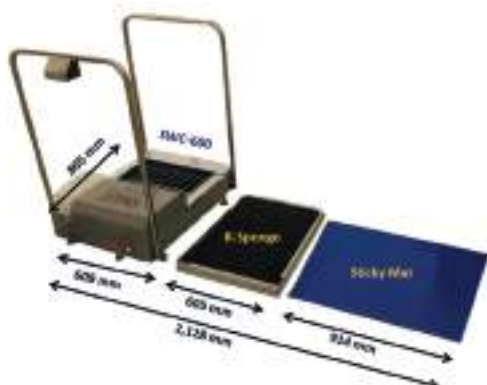


SWC-1700

#### Dry Cleaning



#### Typical Setup of Shoes Cleaning Machine



#### Shoe Cover Dispenser



## Expertise | We Specialise

**Workstation****Chair****Trolley****Shoe Bench**

### Cleanroom Furniture/ Installation

**Cabinet****Rack****Lockers****Clean Booth****Air Shower****Pass-Through Box****Strip Curtain**



## Expertise | We Specialise



Chrome Rack



Security Cage



Reel Rack

### Racking & Storage System



Cage with Foam



PP Trolley



Boltless Rack



Medium Duty Rack



Shelving Cabinet



Metal Cabinet



Tear Drop Rack

## Expertise | We Specialise

### ESD Training & Audits

**We have qualified professionals to provide the following ESD support services :**

- Consultation on ESD Control Programmes
- ESD Training
- ESD Maintenance
- ESD Audits
- ESD Assessment & Line Buy-off
- Electronic Protected Area (EPA) Set-up



### ESD Workstations & Set-Up

**We provide one-stop service to supply and set-up ESD workstations, including testing and commissioning. We also offer solutions to resolve ESD issues that you are currently facing in your operating machines, production lines and workstations.**



# Cleanroom / Static Control

## Garments / Fabric



AP-001

### Jumpsuit

- One-piece suit for class 1K & below environment
- Cleanroom fabric with anti-static properties



AP-002

### Smock

- Cleanroom fabric with anti-static properties
- Choice of fabric



AP-003

### 2-Pieces Suit

- Jacket and pants suit
- Cleanroom fabric with anti-static properties



AP-004

### Hood

- Customised design
- Cleanroom fabric with anti-static properties



AP-005

### Booties

- Customised design, length and choice of fabric for leggings



AP-006

### Built-in Bag

- 2-in-1 design with reverse built-in bag to keep coverall & shoes



AP-007

### Fabric Carrier

- Customised design, size and choice of fabric



AP-008

### Nylon Mesh Bag

- Sling and haversack design
- Various Sizes available



AP-009

### Hotpress



AP-010

### Embroidery



AP-011

### Hawaiian Collar



AP-012

### Mandarin Collar

#### 2.5mm Grid



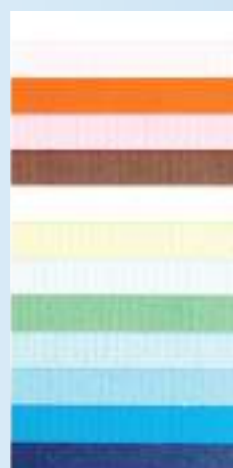
- FA110-1
- FA110-3
- FA111-1
- FA113-1
- FA113-4
- FA114-1
- FA114-2
- FA114-4
- FA116-1
- FA116-4

#### 5mm Grid



- FA120-1
- FA121-1
- FA121-4
- FA123-1
- FA123-4
- FA124-1
- FA124-4
- FA126-1
- FA126-2
- FA126-4
- FA125-1

#### 5mm Strips



- FB210-1
- FB211-1
- FB211-2
- FB211-3
- FB212-1
- FB213-1
- FB213-4
- FB214-1
- FB214-4
- FB216-1
- FB216-2
- FV216-4
- FB215-1

« Colours are only for reference.



# Cleanroom / Static Control

## Footwear



**Cleanroom Booties**

- Soft toe cap
- ESD safe, cleanroom compatible



**Safety Booties**

- Hard toe cap for protection
- ESD safe, cleanroom compatible



**Over Boots**

- Slip on over existing shoes
- ESD safe, cleanroom compatible



**Washable Shoe Covers**

- Slip on with elastic top
- Washable and durable



**ESD PU / PVC SHOES**

- Net with Velcro, white sole
- Static Dissipative or conductive



**ESD PU / PVC SHOES**

- Net with Velcro, grey sole
- Static Dissipative or conductive



**ESD PU / PVC SHOES**

- Net Design, white sole
- Static Dissipative or conductive



**ESD PU / PVC Shoes**

- 4 hole design, white
- Static dissipative or conductive



**ESD PU / PVC Shoes**

- 4-hole design, black
- Static dissipative or conductive



**ESD PU / PVC Shoes**

- Full cover, white
- Static dissipative or conductive



# Cleanroom / Static Control

## Footwear



AP-023

### ESD Safety Shoes

- Slip-on design, white
- Steel/fibre glass toe cap



AP-024

### ESD Safety Shoes

- Slip-on design, black
- Steel/fibre glass toe cap



AP-025

### ESD Sandals

- 4-hole design, white or blue
- -Static dissipative or conductive



AP-026

### ESD Slippers / Sandals

- ESD SPU, 4-hole design, white or blue
- Static dissipative or conductive



AP-027

### ESD Slippers / Sandals

- ESD SPU, front open, white or blue
- Static dissipative or conductive



AP-028

### ESD Canvas Shoes

- 4-hole design, black
- Antistatic or normal PU / PVC sole



AP-029

### ESD Canvas Shoes

- Full cover, coloured sole, white
- Antistatic or normal PU / PVC sole



AP-030

### Clogs

- Non-slip soles. Washable
- Various designs and colours



AP-031

### ESD Sandals

- Adjustable strap
- Static dissipative or conductive



AP-032

### Safety Cap Overshoes

- Aluminium alloy steel head
- Various sizes available with adjustable straps

# Cleanroom / Static Control

## Stationery



AP-033

### Cleanroom Notebook

- A4, A5, A6, A7 size
- Spiral or Stapled binding



AP-034

### Cleanroom Paper

- A4 or A3 size, 72 or 80gsm
- Various colours available



AP-035

### Stainless Steel Pen

- Stainless steel casing
- Refillable ink red, blue, black



AP-036

### Sharpie Pen

- Permanent marker pen
- Fine, extra fine tip, various colour ink



AP-037

### ESD Pen

- Conductive non carbon black PP
- Refillable ink red, blue, black



AP-038

### ESD Pen Holder

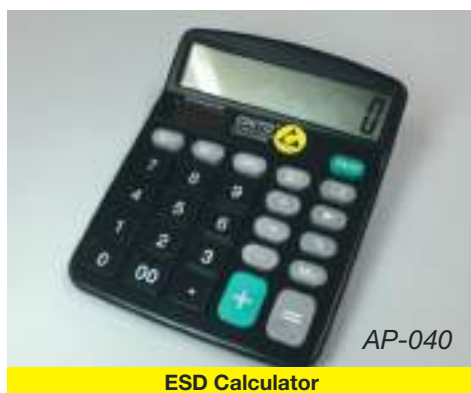
- ABS material
- Surface resistance 10E5-10E8 Ohm



AP-039

### ESD Ruler

- ABS material
- Surface resistance 10E5-10E8 Ohm



AP-040

### ESD Calculator

- ABS material
- Surface resistance 10E5-10E8 Ohm



AP-041

### ESD Tape Dispenser

- ABS material
- Surface resistance 10E5-10E8 Ohm



AP-042

### ESD Stapler

- ABS material
- Surface resistance 10E5-10E8 Ohm

# Cleanroom / Static Control

## Stationery



AP-043

### ESD Mousepad

- Conductive/static dissipative PVC
- Various sizes available



AP-044

### ESD Mouse & Keyboard

- ABS material
- Surface resistance 10E5-10E8 Ohm



AP-045

### ESD File Holder

- ABS material
- Surface resistance 10E5-10E8 Ohm



AP-046

### ESD Document Tray

- ABS material
- Surface resistance 10E5-10E8 Ohm



AP-047

### ESD Document/Badge Holder

- ESD PVC material
- C or U opening for document holder
- Landscape, portrait, ziplock for badge holder



AP-048

### Static Dissipative Page Protector

- Ring binding holes
- Soft and Flexible



AP-049

### ESD Arch File

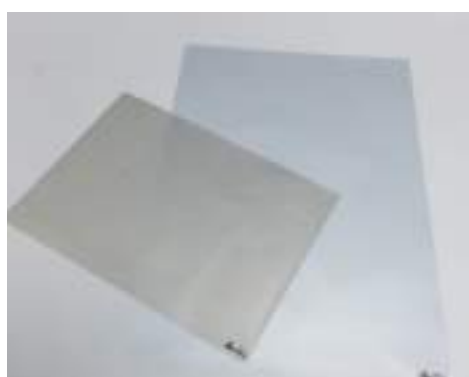
- Available in 1", 2" or 3"
- Ring or bar type



AP-050

### ESD Clipboard

- ESD Safe cleanroom material, clear or ivory
- A4 size, landscape or portrait



AP-051

### ESD Clear Laminate

- ESD Safe cleanroom material, clear or ivory
- A4 size, landscape or portrait



AP-052

### ESD Stickers & Printer Label

- Customise to size, colour, design



# Cleanroom / Static Control

## Tapes



AP-053

### Caution Floor Marking Tapes

- Printed with ESD logo
- Roll width 1", 2", 3"



AP-054

### Brown Conductive Grid Tape

- Co-polymer antistatic layers with conductive grid
- Roll width 12mm, 18mm, 24mm, 48mm



AP-055

### Clear Antistatic Tape Printed With ESD Symbol

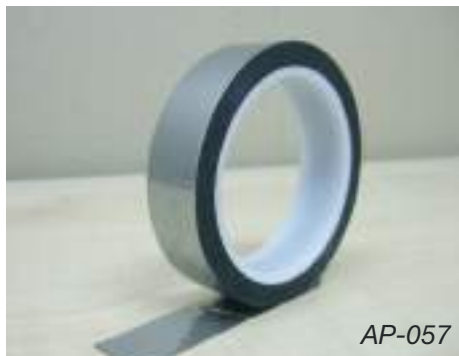
- Printed with ESD symbols and "Anti-static Tape"
- Roll width 12mm, 18mm, 24mm, 48mm



AP-056

### Clear Antistatic Tape

- Cellulose, PET, OPP film
- Cut to required size



AP-057

### Static Shielding Utility Tape

- Metalised polyester film with anti-static coating



AP-058

### Cleanroom Tape

- Non-residuing cellophane tape
- Multiple colours & width



AP-059

### High Temperature ESD Kapton Tape

- Polyimide film, heat resistance
- Cut to required size



AP-060

### Copper Tape

- Used for ESD grounding
- Roll width 8,10,12,18,24,48mm



AP-061

### Cleanroom Conductive Tape

- Non-residuing polyester film with conductive adhesive
- Roll width 18,24, 48mm



AP-062

### ESD Fabric Tape

- Conductive 5mm grid fabric with acrylic adhesive
- ESD properties on both sides



AP-063

### ESD Double Sided Tape

- Antistatic treated PET film with double sided acrylic adhesive coating



AP-064

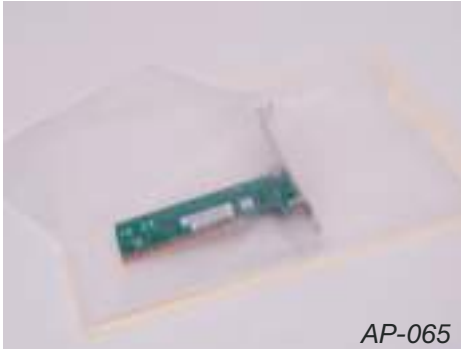
### Cover Tapes

- Conductive / Static Dissipative
- PSA & heat sealable



# Cleanroom / Static Control

## Packaging



AP-065

### Clear Amide / Silicon Free Bag / Sheet

- LDPE or HDPE
- Cleanroom Grade



AP-066

### Antistatic Bag / Ziplock

- LDPE/HDPE/PP/Nylon
- Clear, Pink or Blue Antistatic



AP-067

### Antistatic Bubble Bag / Rolls

- LDPE, single or double layer construction
- Air bubbles 10, 25, 30mm diameter



AP-068

### Static Shielding Bag

- Heat sealable flexible barrier
- Available with ziplock



AP-069

### Moisture Barrier Bag

- Static dissipative polyethylene and metalised polyester
- Moisture barrier and puncture resistance



AP-070

### Cleanroom PE Packaging Foam

- Extruded LDPE Foam
- Customised shape and size



AP-071

### Cleanroom Tyvek Separator

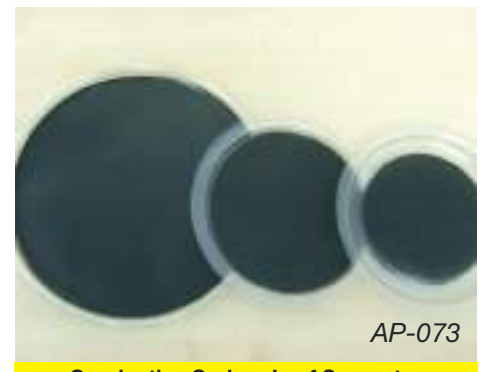
- Static Dissipative
- Cleanroom compatible



AP-072

### Cleanroom Paper Separator

- Non-woven structure
- Cleanroom compatible



AP-073

### Conductive Carbon Leaf Separator

- Conductive black
- Customised size and design



AP-074

### Antistatic PE/PU Foam

- Improved packaging against shock and vibration
- Customised size and design



AP-075

### Customised ESD Foam

- Antistatic PE / PU foam / conductive corrugated sheet material



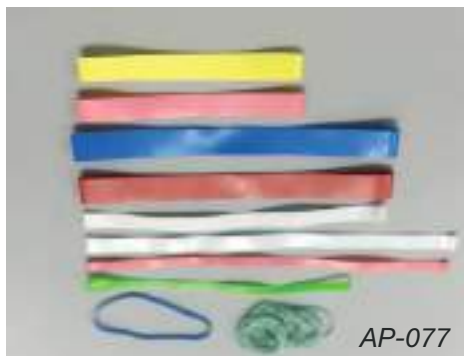
AP-076

### Conductive PU / PE / EVA Foam

- Excellent cushioning property
- Available in various densities

# Cleanroom / Static Control

## Material Handling



AP-077

### Mobilion Band

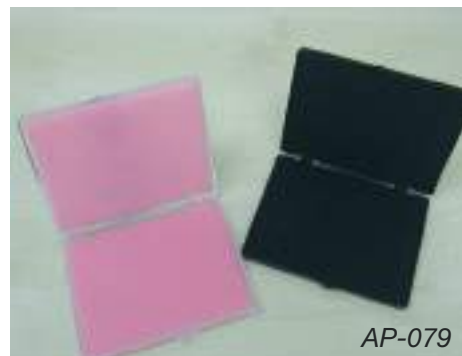
- 100% thermoplastic polyurethane elastomer
- Sulfur free



AP-078

### Container Box

- Various colours and sizes
- Stackable, partition plates



AP-079

### ESD Hinge Box

- Injection moulded PP / Amide-free acrylic transparent cover
- Conductive or Dissipative Foam



AP-080

### Conductive Corrugated Box

- Customised size and design
- Include Antistatic PE / PU / EVA Foam



AP-081

### ESD Component Box

- Plastic injection moulded
- Various sizes



AP-082

### ESD Drawer Box

- Plastic injection moulded, stackable
- Various sizes and partitions



AP-083

### ESD Multi-usage Circulation Box

- Plastic injection moulded
- Various sizes & cover



AP-084

### ESD Waste Bin

- Plastic injection moulded
- Various sizes



AP-085

### ESD Shipping Pallets

- Plastic injection moulded
- Stackable design



AP-086

### ESD Tray

- Plastic injection moulded
- Various sizes, removable partition



AP-087

### ESD Tray

- Plastic injection moulded
- Various sizes



AP-088

### ESD Tray

- Plastic injection moulded
- Various sizes, Cavities

# Cleanroom / Static Control

## Material Handling



AP-089

### ESD PCBA Rack

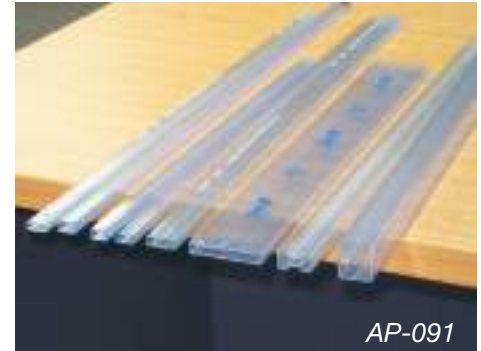
- Flat or L-shape
- Capacity 25 pcs



AP-090

### ESD Magazine Rack

- Moulded conductive PP & reinforced aluminium structure
- Adjustable shelf space



AP-091

### ESD Shipping Tube

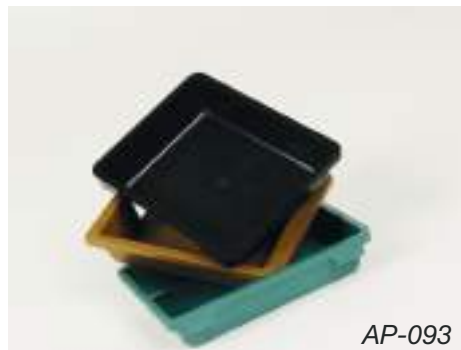
- PVC, PS, PETG material
- Design services available



AP-092

### ESD Vacuum Foaming Tray

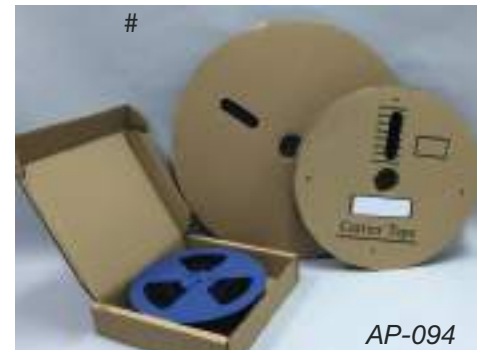
- PP, PE, PVC, PET, PETG material
- Conductive / Static Dissipative



AP-093

### ESD Injection Moulded Tray

- PP, PE, ABS, PC Materials
- Conductive / Static Dissipative



AP-094

### Embossed Carrier Tapes & Reels

- Conductive / Static Dissipative
- Design services available



AP-095

### ESD Rubber Bands

- Static Dissipative, reusable
- Customised size



AP-096

### ESD PP Strap

- Conductive / Static Dissipative
- Various sizes



AP-097

### Wafer Shipper

- Packing box to ship wafer
- For wafer sizes 3", 4", 5", 6", 8"



AP-098

### Conductive Honeycomb Sheet

- 3 types available
- Roll Size 0.3mm x 1370mm x 30m



AP-099

### ESD Clear PVC Sheet

- Roll size 0.3mm x 1370mm x 30m



AP-100

### Stretch Film

- Plastic core for cleanroom use available



# Cleanroom / Static Control

## Workstation / Accessories



AP-101

### Static Control Wrist Strap / Coil Cord

- Standard elastic, velcro or metallic band
- Capacitive or resistive



AP-102

### Dual Station Ground Block

- Injection moulded block
- install with lug or snap button



AP-103

### Common Point Ground Cord

- 0 Ohm available
- For banana jack



AP-104

### Grounding Cord For ESD Mat

- 1 Meg Ohm Built-in resistor
- Grounding point with snap button / lug



AP-105

### Grounding Terminal

- Connector for grounding
- Available with 5, 6, 8 points



AP-106

### Earth Plug

- 1 Meg Ohm Built-in resistor
- UK 3pin for grounding



AP-107

### Mobile Static Control Kit

- ESD mat, wrist strap, dual station grounding block, earth grounding



AP-108

### Heel Grounder

- Grounding mobile personnel
- Disposable strip available



AP-109

### Conductive / Dissipative Velcro Belt

- For strapping trays during transportation
- Reusable Velcro with metal buckle



AP-110

### ESD Solvent Dispenser

- Anti-static PE bottle with stainless steel pump cap
- 180ml, blue, pink



AP-111

### ESD Brush

- Plastic, plywood or metal handle
- Horsehair or metal bristles



AP-112

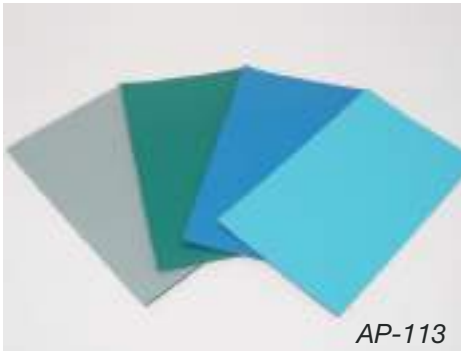
### Tweezers

- ESD safe plastic or stainless steel
- Various tips and sizes



# Cleanroom / Static Control

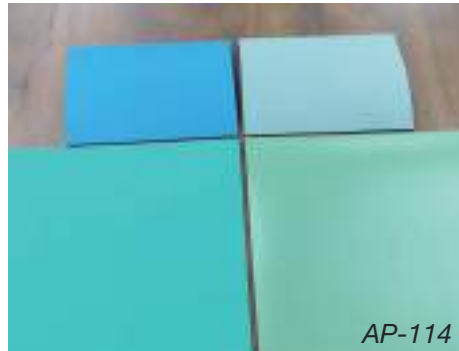
## Mats / ESD Solutions



AP-113

### Static Control Table Mat

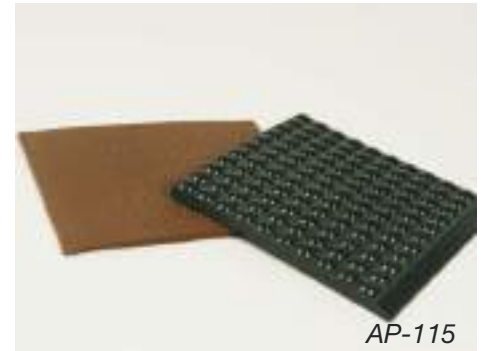
- 2-layer (static dissipative top and conductive bottom)
- Green, blue, brown, grey, black



AP-114

### High Temperature ESD Mat

- 2-layer (static dissipative top and conductive bottom)
- Rough surface, 2mm thick



AP-115

### Anti-Fatigue Mat

- Homogenous brown or black dissipative
- Cushioning effect



AP-116

### Cleanroom Mat

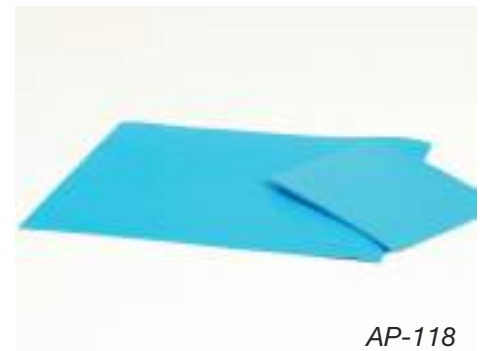
- Amide and silicon free
- Various colours, roll or cut to size



AP-117

### Compostat Homogenous Mat

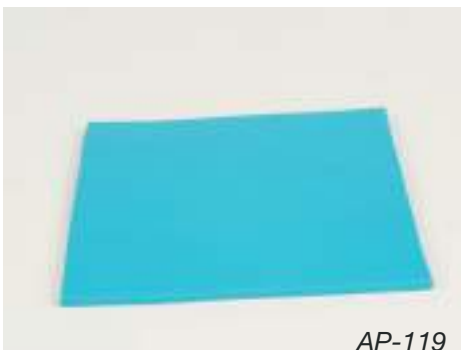
- Single layer homogenous material, 2 or 3mm
- Static Dissipative, blue, brown, grey



AP-118

### Interstat Mat

- 3-layer (Dissipative top, conductive middle, cushion bottom)
- 3mm thick, blue or grey



AP-119

### Pop Operator Mat

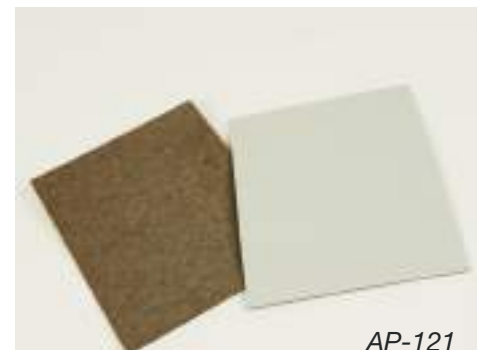
- Homogenous material, 6.5mm thick
- Static Dissipative, reduce shock



AP-120

### Black Conductive Mat

- Conductive <10(E)5 Ohm
- 1.5mm thick



AP-121

### Conductive / Dissipative Laminate

- Chemical & sulfur resistance
- Various colours



AP-122

### Mat & Table Top Cleaner

- Removes surface dirt
- Maintain original surface resistivity of anti-static mats



AP-123

### Static Dissipative Permanent Coating Solution

- Colourless paint that allows static to dissipate across surface



AP-124

### ESD Spray

- Apply by spraying, wiping, dipping
- Non-staining

# Cleanroom / Static Control

## Equipment / Tools



AP-125

### Wrist Strap Tester

- Verify connections while wrist strap is worn
- Factory set 800K-10M, adjustable, 9V battery



AP-126

### Wrist Strap & Footwear Combo Tester

- Individually and simultaneously test wrist strap & heel grounder
- Data logging & networking capability



AP-127

### Surface Resistivity Checker

- Handheld meter with 9V battery
- Digital display of surface resistance value



AP-128

### Digital Resistance Meter Set

- Tests resistivity, humidity and temperature of all surfaces
- Two 5 pound weights



AP-129

### Handheld Static Field Meter

- Check charge condition, ion balance etc
- Rotary sensor head 180 degrees, 9V battery



AP-130

### Handheld Charge Plate Monitor

- Check ion balance and decay time
- Rotary sensor head 180 degrees, AC adaptor or battery



AP-131

### Continuous Wrist Strap Monitoring System

- Ensure wrist strap in good working condition
- LED & audio alarm, scalable with network capability



AP-132

### Cleanroom Vacuum Pick-Up Tools

- Hand operated vacuum suction tool
- Various design and sizes



AP-133

### ESD Vacuum Pick-Up With Pump

- Pick-up tiny SMT components
- Built-in air pump, ESD safe



AP-134

### ESD Leadfree Soldering Station

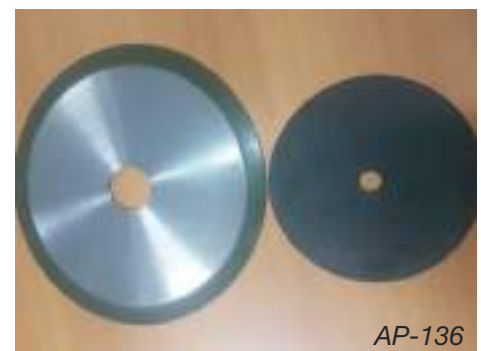
- Automatic heat output control adapted to various soldering tip sizes



AP-135

### ESD Solder Sucker

- ESD safe housing and tip
- Handy and light weight



AP-136

### Grinder Cutting Disk Blade

- Polishing or Cutting Glass, Plastics, Concrete
- Diamond Saw or other materials available

# Cleanroom / Static Control

## Equipment / Tools



**Benchtop 1-Fan Ionisers**

- Automatic cleaning emitter function for maintenance free performance
- HDC-AC Technology for stability performance



**Benchtop 2-Fan Ioniser**

- HDC-AC or HF-AC Technology
- Wide Coverage area as 400mm



**Overhead Ioniser**

- Stainless steel or powder coated casing
- Safety controlled as pulse discharge and current control



**Ion Blow Gun**

- Eliminate static electricity from charged objects and blow away dust
- Wave motion nozzle add-on, AC adaptor



**Nozzle Type Air Ioniser**

- Compact AC ionizer with built-in transformer
- High performance even with ultra-low pressure supply



**Bar Type Ioniser**

- HDC-AC with built-in high voltage power supply
- Does not require cleaning over the long term



**Vacuum Heat Sealers**

- T.O.S.S. Variable Resistance Control for consistency
- Medical and cleanroom models available



**Particle Trap**

- Capture particles / fumes right at the source
- Built-in ionizers to neutralize surface static charges and blow-off contaminants



**Magnifying Lamp**

- LED lights, ESD or non-ESD models
- Different magnification



**Cleanroom Mop**

- Lint free & cleanroom compatible
- Microfibre polyester or PVA sponge material



**Vacuum Cleaner**

- HEPA / ULPA filters to remove ultra-small particles
- Wet & Dry models available



**FFU & Hepa Filters**

- Fan Coil Motor Unit with HEAP filters to remove 99.97% of 0.3um particles



# Cleanroom / Static Control

## ESD Flooring

### Conductive / Static Dissipative Vinyl Tiles



FL-001(4)



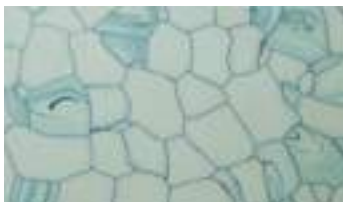
FL-001(8)



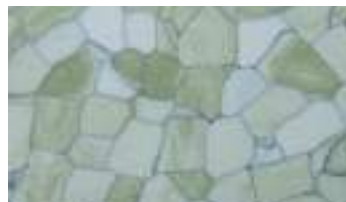
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FL-001(70)



FL-001(12)



FL-001(10)

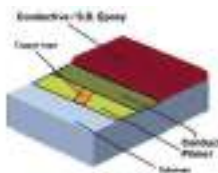


FL-001(13)



FL-001(7)

## Floor System, Accessories & Solutions



AP-149

### ESD Epoxy Floor

- Epoxy floor material specially formulated for ESD control application



AP-150

### Raised Floor Access Floor Panel System

- Floor panel size 600mm x 600mm x 30-35mm
- Conductive / Dissipative floor tiles top finish



AP-151

### Welding Rod / Copper Tape / Conductive Glue

- For sealing, grounding and adhering floor tiles to sub-floor



AP-152

### Static Dissipative Floor Finish

- Dry faster with high gloss intensity
- Superior abrasion performance



AP-153

### Anti-static Floor Stripper

- Non-ammoniated, biodegradable floor stripper removes old coats of wax or synthetic floor finish quickly



AP-154

### Anti-static Neutral Cleaner

- Leaves no film, low foam level, constant detergency, non-streaking

## ESD Flooring

### TECHNICAL SPECIFICATION

#### PHYSICAL PROPERTIES

Items	Test Method	Conductive / Dissipative
Thickness (mm)	ASTM-F-386	2.0/2.5/3.0/4.5
Standard Size (mm)		305×305 / 500×500 / 600×600 / 606×606 / 610×610 / 616×616 / 900×900
Specific gravity	ASTM-D-792	1.5[Floor]/1.7[OA Tile]
Hardness (shore D)	ASTM-D-2240	55±5
Abrasion Resistance (mg)	ASTM-D-4060	<400
Squareness (mm)	ASTM-F-540	305 < ±0.15 500/600/606/610 < ±0.30 900 < ±0.45
Size (mm)	ASTM-F-536	305 < ±0.30 500/600/606/610/616 < ±0.60 900 < ±0.90
Indentation (mm)	ASTM-F-142	<0.8
Residual Indentation (%)	ASTM-F-142	<8.0
Dimensional Stability (%)	KS-M-3802	<0.20
Flexibility	ASTM-F-137	No Crack

#### ELECTRICAL PROPERTIES

Items	Test Method	Conductive / Dissipative
STS(Surface To Surface) Resistance( $\Omega$ )	UL-779	$2.5 \times 10^4 - 1 \times 10^6$ $1 \times 10^6 - 1 \times 10^9$
STG(Surface To Ground) Resistance( $\Omega$ )	UL-779	$2.5 \times 10^4 - 1 \times 10^6$ $1 \times 10^6 - 1 \times 10^9$
Static Decay Time(5,000V to 20V)	MIL-B-81705C	<0.1sec
Static Generation(volts)with conductive footwear	AATCC-134	<100

#### Chemical / Contaminant Resistance

Items	Conductive / Dissipative	Items	Conductive / Dissipative
5% Acetic Acid	No Defect	Soybean oil	No Defect
5% Hydrochloric Acid	No Defect	Kerosene	No Defect
5% Nitric Acid	No Defect	Cement Paste	No Defect
5% Ammonia Solution	No Defect	Milk	No Defect
5% Ethyl Alcohol	No Defect	Soy Sauce	No Defect

#### Subsidiary Materials

##### Copper Tape

- Copper tape : 0.025mm thickness and 15mm wide
- Adhesive : Conductive adhesive( $10^3 \sim 10^4$ )
- PVC welding Rod : 3-4mm diameter

##### Welding Rod

- ▶ White
- ▶ Gray
- ▶ Blue
- ▶ Pink
- ▶ Green Gray
- ▶ Green

# Disposable / Consumables

## Gloves



AP-155

### Vinyl Gloves

- Low extractable ions, cleanroom grade
- Antistatic & ambidextrous



AP-156

### Nitrile Gloves

- Amide & silicon free, cleanroom grade
- Available in various colours and length



AP-157

### Latex Gloves

- 100% natural rubber, cleanroom grade
- Box or polybag packing



AP-158

### Different Nitrile Gloves

- Available in various colours
- Different Length Gloves



AP-159

### Different Length Gloves

- Length 245mm, 300mm 400mm, 530mm



AP-160

### Box Packing Gloves

- For easy retrieval & storage



AP-161

### Polyester Gloves

- 100% polyester
- Lint-free and durable



AP-162

### Conductive Polyester Gloves

- 100% polyester with conductive carbon fiber
- Conductive on one or two sides



AP-163

### Conductive Non-Skid Polyester Gloves

- PVC dots based coating on palm side
- Non-slip for excellent grip



AP-164

### PU Coated Polyester Gloves

- Full PU coating on palm side
- Non-slip for excellent grip



AP-165

### ESD Cut-Resistant Gloves

- Level 5 cut resistant with carbon knitted



AP-166

### ESD Cut-Resistant Glove (Finger Coating)

- Level 5 cut resistant with carbon knitted and white PU fingertips coating



# Disposable / Consumables

## Gloves



**Nylon Gloves**

- Low Lint, excellent stretch & comfort
- Available in normal or ESD safe materials



**ESD Nylon PU Palm-Fit Gloves**

- Lint free and anti-slip
- White PU coating at palm area



**ESD Nylon PU Top-Fit Glove**

- Lint free and anti-slip
- White PU coating at fingertip area



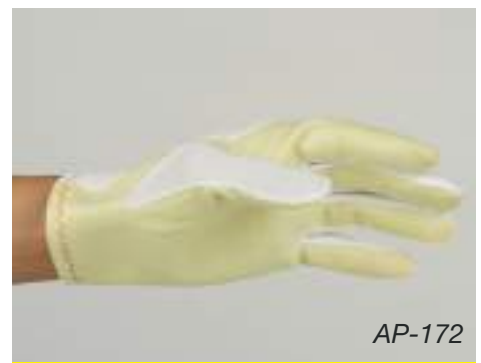
**High Temperature Gloves (White)**

- ESD & Cleanroom compatible
- Withstand high temperature 200C or 300C



**High Temperature Gloves (Green)**

- ESD & Cleanroom compatible
- Withstand high temperature 200C or 300C



**Heat Resistance Gloves**

- Short contact up to 150c
- Thin and flexible material for good feel



**ESD Heat Resistance Gloves**

- ESD safe and short contact for high temp.
- Thin and flexible material for good feel



**White Knitted Grey Nitrile Palm Coated Gloves**

- Good grip and oil resistance



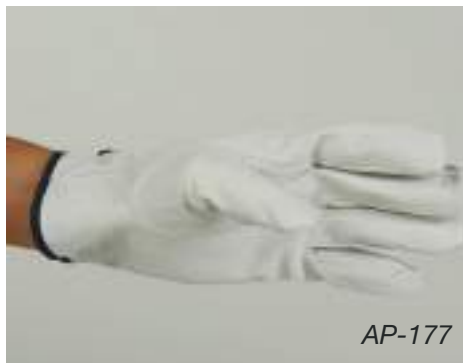
**Cotton Gloves (Thin)**

- Light and comfortable
- High absorption for sweat



**Cotton Gloves (Thick)**

- Strong and Durable
- Double knitted for robust use



**Full Leather Gloves**

- Made of genuine leather
- High abrasion resistance



**Half Leather Gloves**

- Cotton or polyester top surface
- High abrasion resistance

## Disposable / Consumables

### Shoes/ Head/ Face Cover & Wipes



AP-179

#### Non-Woven Shoe Cover

- Slip on with elastic top
- Non-slip type available



AP-180

#### PVC / CPE Shoe Cover

- Slip on with elastic top
- Low cost



AP-181

#### Anti-Slip Shoe Cover With Conductive Strip

- Provide grounding



AP-182

#### Overbooties

- Non-woven low lint material
- Wear over existing shoe



AP-183

#### Strip Type Mob Cap

- Non-woven low lint material
- Available in various colours



AP-184

#### Bouffant Type Mob Cap

- 21" diameter, 2 elastic bands
- Available in various colours



AP-185

#### Hood Type

- Non-woven low lint material



AP-186

#### Beard Type

- Non-woven low lint material



AP-187

#### 1-Ply Paper Facemask

- Low cost paper material
- Box packing



AP-188

#### 2-Ply & 3 Ply Facemask

- Non-woven low lint material
- Box or polybag packing, ear or head loop



AP-189

#### Blue Facemask

- Non-woven low lint material
- Box or polybag packing, ear or head loop



AP-190

#### Carbon Facemask

- Active carbon for protection against bad odor and organic vapours



AP-191

#### ESD / Polyester / Non-Woven Wipes

- High absorption power with no residue
- Sizes 4"x4", 6"x6", 9"x9", 12"x12", 24"x24"



AP-192

#### Micro-Denier Wipes

- Micro-filament ultra-fine fabric structure
- Laundered & packaged



AP-193

#### Cleanroom PVA Wipes

- Sheet or block type
- High absorption with good chemical resistance property



AP-194

#### Pre-Wetted IPA Wipes

- Non-woven or polyester wipes with IPA 6%, 70% etc
- Packed for easy retrieval

# Disposable / Consumables

## General



AP-195

### PVC / Tyvek Sleeve Protector

- Protects from chemical spillage at arm sleeves
- Good chemical resistance



AP-196

### PVC / Tyvek Apron

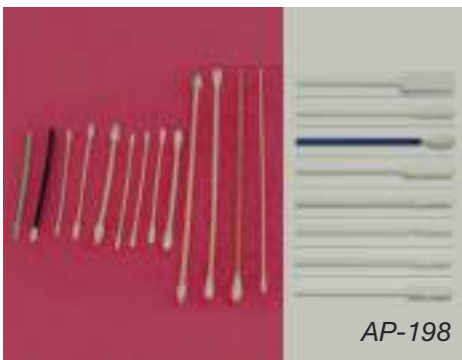
- Protects from chemical spillage
- Good chemical resistance



AP-197

### Tyvek Jumpsuit

- Coverall suitable for cleanroom use
- Good chemical resistance



AP-198

### Foam / Cotton Swabs

- PP Handle-conductive or dissipative
- Foam, polyester or cotton head



AP-199

### Finger Cots

- Antistatic and powder free
- Nitrile or latex material



AP-200

### Finger Stalls

- Antistatic or conductive
- Finger textured or smooth



AP-201

### Cleanroom Non-woven Adhesive Rolls

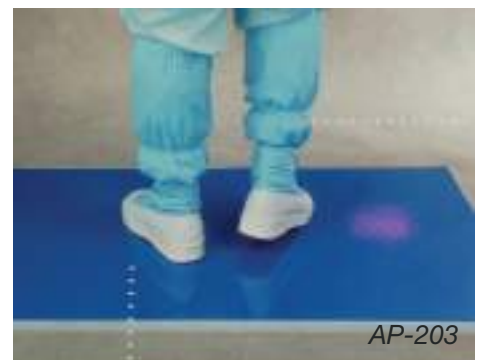
- Removes dust particles in cleanroom rollers
- Good absorbency & antistatic



AP-202

### Sticky Roller

- Portable dust and particle collector
- Roller handle & LDPE with acrylic adhesive



AP-203

### Sticky Mat

- Polyethylene film with low, medium or high tackiness
- 24"x 36" or 26" x 45"



AP-204

### DEK Wiper Rolls

- Non-woven material for cleaning
- Customised to size



AP-205

### Scrub Pads

- Cleaning pads with different texture for effective cleaning



AP-206

### Silica Gel & Humidity Card Indicator

- Attracts and holds water, alcohols, hydrocarbons and other chemicals



# Medical Disposables

## Gowns / Disposables



**Non-Woven Kimono**

- Various design and colours available



**Sterile Tyvek Jumpsuit**

- Full coverall for maximum protection



**Apron**

- PVC material, lightweight and water-proof



**Isolation Gown**

- Available in various materials and grade



**SMS Surgical Gowns**

- Available in various materials and grade



**Sterile Gown Pack**

- Available in AAMI Levels 2, 3 & 4



**AAMI Impervious Gown**

- Sterilised for protection from transfer of micro-organisms, body fluids and particulate matter



**AAMI Impervious Gown**

- Designed for comfort when worn by healthcare professionals



**AAMI 4 Impervious Gown (Inner)**

- Extra lining protection at front and sleeve areas



**Back Table Cover**

- Various sizes available



**Endoscopy Component Pack**

- Customise to meet requirements on components in the pack

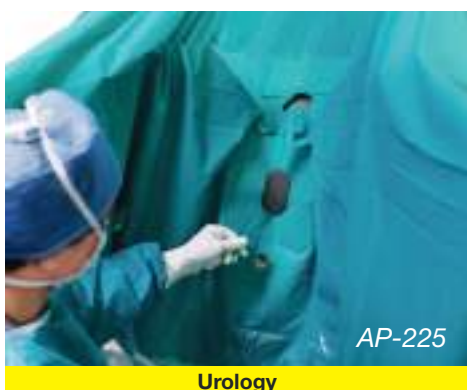


**Sterilization Wraps**

- Available in various material, colours and sizes

# Medical Disposables

## Surgical Drape





# Medical Disposables

## General



AP-231

### Disposable / Surgical Gloves

- Various gloves available for general, surgical and radiography uses



AP-232

### Disposable Caps

- Doctors'/nurses' caps in various colours



AP-233

### Non-Woven Pillow Case & Bedsheet

- Comfortable material with various sizes and colours



AP-234

### Visor

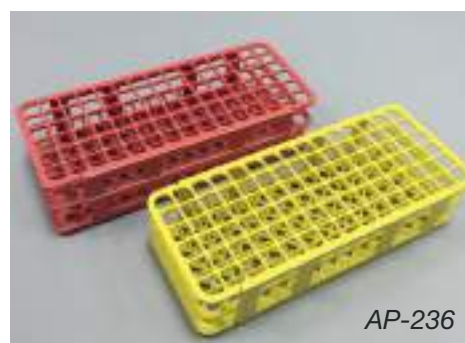
- Non-woven face mask with plastic shield



AP-235

### Footwear

- Clogs available in various designs and colours



AP-236

### Specimen Racks

- For specimen tubes, available in various colours and sizes



AP-237

### Microfiber Wipes

- High absorbency microfiber for blood stains and chemical spills



AP-238

### Microfiber Hand Pads

- High absorbency microfiber for effective cleaning



AP-239

### Sterile 70% IPA

- 70% IPA with 30% DI water



AP-240

### Environmental Surface Wiping System

- Lint-free, non-textured fabric provides consistent solution release with enclosed dispenser



AP-241

### Sporicidal Disinfectant & Cleaner

- 3 mins sporicide claim at 99.9999% efficacy



AP-242

### Microfiber Flat Mop System

- Stainless steel handle with replaceable microfiber wiper



## Furniture

### Customised Work Bench - Stainless Steel



AP-243

Stainless Steel Workbench



AP-244

Stainless Steel Workbench



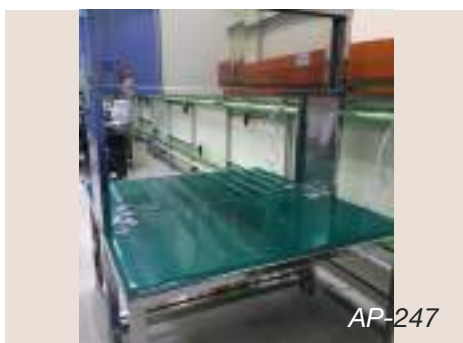
AP-245

Stainless Steel Workbench



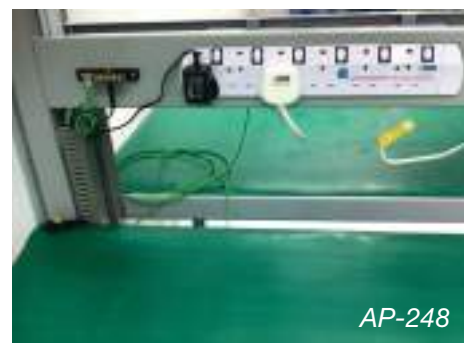
AP-246

Stainless Steel Workbench



AP-247

Stainless Steel Workbench



AP-248

Power Supply Bar

### Customised Work Bench - Powder Coated / Wooden



AP-249

Powder Coated Workbench



AP-250

Powder Coated Workbench



AP-251

Powder Coated Workbench



AP-252

Powder Coated Workbench



AP-253

Powder Coated Workbench



AP-254

Wooden Workbench

## Furniture

### ESD / Stainless Steel Chairs



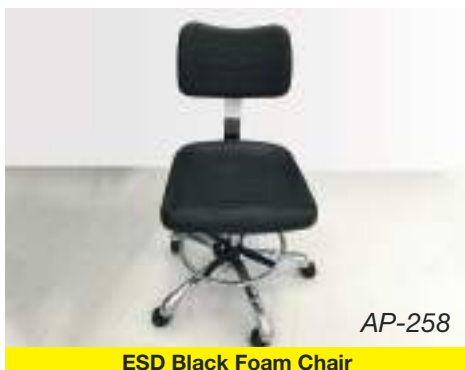
ESD Low Chair



ESD High Chair With Footring



ESD Chair With Hepa Filter



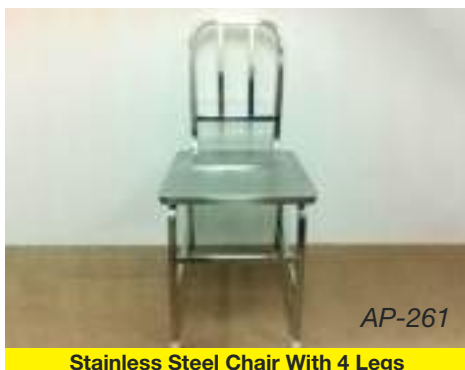
ESD Black Foam Chair



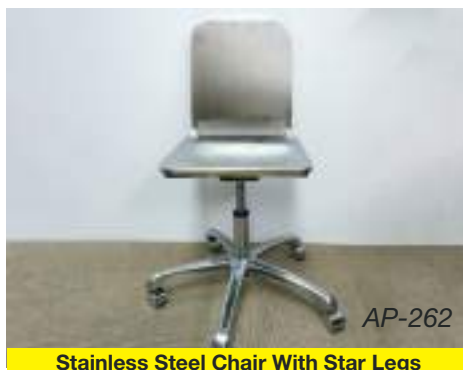
ESD Black Foam Chair



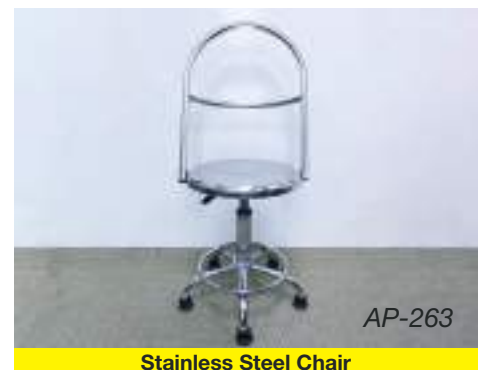
ESD Chair



Stainless Steel Chair With 4 Legs



Stainless Steel Chair With Star Legs



Stainless Steel Chair

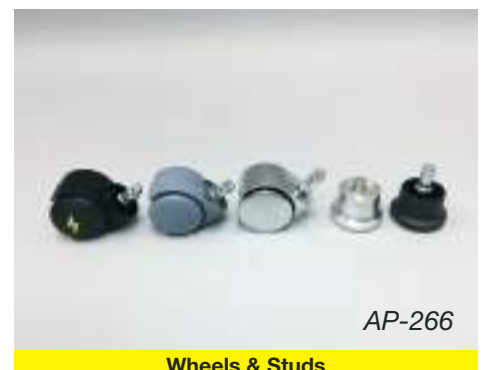
### ESD / Stainless Steel Stools



ESD Black Foam Stool



Stainless Steel Stool



Wheels & Studs

# Furniture

## Rack & Trolleys



AP-267

2 -Tier Stainless Steel Trolley



AP-268

Trolley With U-Handle



AP-269

Trolley With N-Handle



AP-270

Chrome Rack with Vertical Bar



AP-271

Rack For Reels



AP-272

Divider/ Side Fence



AP-273

Mobile Tools Rack



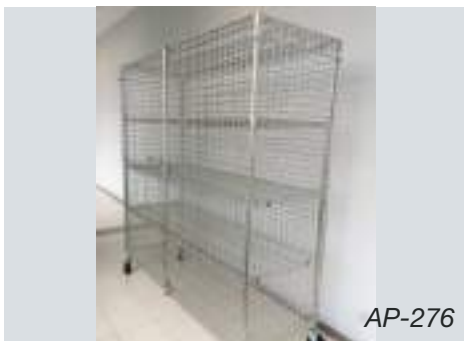
AP-274

Heavy Duty Trolley



AP-275

Foldable Trolley



AP-276

Security Trolley



AP-277

PP Trolley



AP-278

Shock Absorber Wheel



# Furniture

## Gowning Room Furniture



AP-279

**Stainless Steel Shoe Cum Bench**



AP-280

**Stainless Steel Cross-Over Bench**



AP-281

**Stainless Steel Shoe Cabinet**



AP-282

**Chrome Gowning Rack**



AP-283

**Stainless Steel Gowning Cum Shoe Cabinet**



AP-284

**Stainless Steel Gowning Cum Shoe Cabinet**



AP-285

**Metal Gowning Cabinet**



AP-286

**Disposable Cabinet**



AP-287

**Glove Dispenser**



AP-288

**Stainless Steel Bin**



AP-289

**Stainless Steel Hanger**

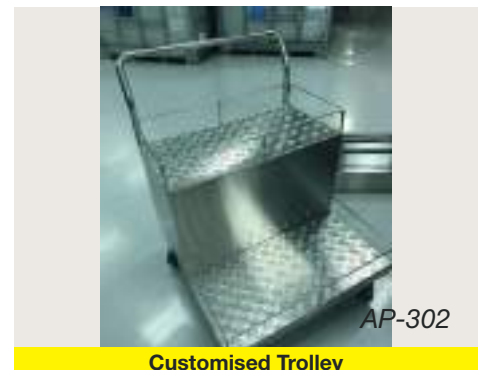
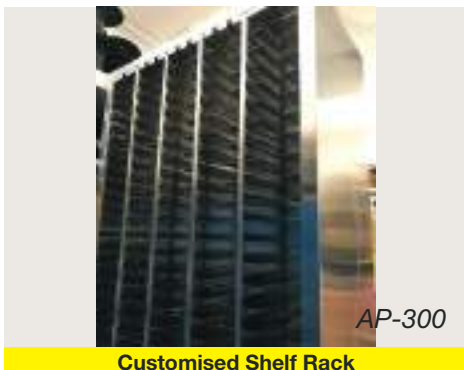
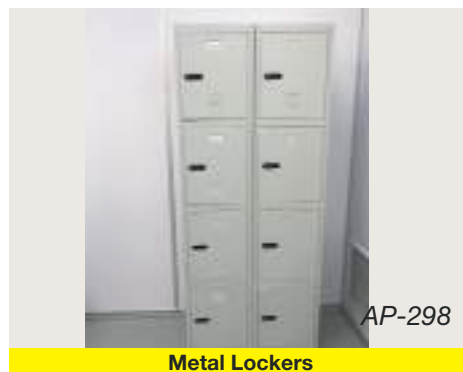
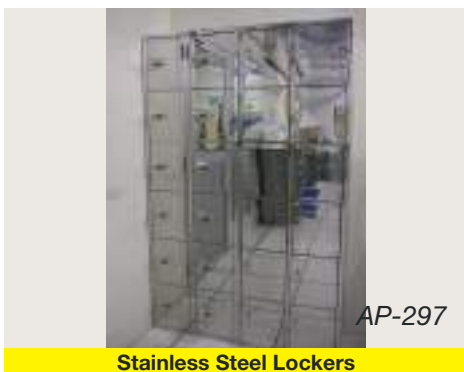
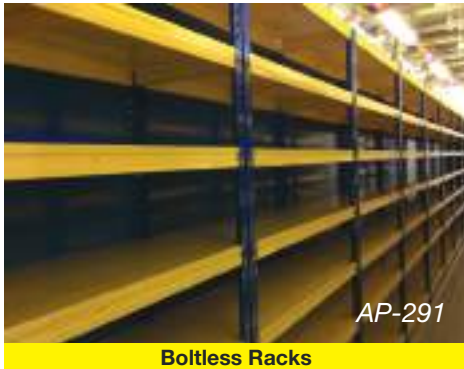


AP-290

**Laundry Collection Cabinet**

# Furniture

## General



# Safety Control

## Personal Protection Equipment (PPE)



AP-303

### Protective Spectacles

- Lightweight, impact and scratch resistance, UV protection



AP-304

### Protective Spectacles

- Lightweight, wide range of vision, fits over personal spectacles



AP-305

### Wide Vision Goggles

- Soft vinyl frame, for chemical splash and impact resistance



AP-306

### Welding Goggles

- Flip front lens, switch from welding to chipping for easy inspection



AP-307

### Clear Face Shield

- Headgear with ABS browguard & aluminum bound PC clear visor



AP-308

### Face & Hearing Protection

- Lightweight & sturdy, 2-in-1 wire mesh with ear muff



AP-309

### Safety Helmet

- Polypropylene shell with adjustable ratchet suspension, chin strap optional



AP-310

### Bump Cap

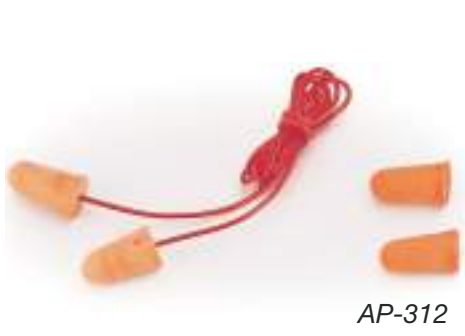
- Lightweight and comfortable, polyethylene shell with adjustable suspension



AP-311

### Back Support

- Fasten securely for optimal support of spine



AP-312

### Ear Plug

- Soft Polyurethane foam/silicon with close-fitting seal, corded or uncorded



AP-313

### Ear Muff

- Soft and pliable foam cushion for comfort, adjustable headband



AP-314

### N95 Face Mask

- Filtration of 95% effective against particulate aerosols free of oils



# Safety Control

## Chemical Protection



AP-315

### Chemical Gloves

- Natural rubber latex cleanroom chemical resistant gloves, powder free, embossed palm



AP-316

### Chemical Gloves

- Thick gloves, 15" long, good for certain chemicals



AP-317

### Chemical Sleeves

- Vinyl, neoprene, Tyvek, special coated ESD material with elastic bands



AP-318

### Chemical Apron

- Vinyl, neoprene, Tyvek material with tie strings with various thickness



AP-319

### Chemical Open-Back Coat

- Cleanroom and special coated ESD fabric, water-proof and anti-chemical



AP-320

### Chemical Jacket

- PVC material with heat sealed seams, 100% water-proof



AP-321

### Chemical Suit

- Dupont coveralls for protection against organic & inorganic chemicals & biological hazards



AP-322

### Chemical Suit

- Respiratory and chemical protective suit



AP-323

### Coverall

- Lightweight & liquid-tight, use with appropriate face and head protection



AP-324

### Fully Encapsulated Suit (Air Tight)

- Breathable airs supplied from external compressed air source



AP-325

### Chemical Boots

- Rubber / PVC material, slip-resistant, resistant to chemicals, oils, cleaning agents etc



AP-326

### Boots Cover

- PVC / Tyvek material, skid-resistant, elastic top

# Safety Control

## Safety Containment



AP-327

### Wash Bottles (500ML)

- Blank or pre-labelled with IPA, Acetone, DI water, Methanol, IMS etc



AP-328

### Eyewash Solutions

- Sterile, buffered isotonic solution designed for control rate of flow



AP-329

### Safety Shower & Eye Wash

- Shower rise is pull rod operated and eye / facewash has twin spray aerated nozzles



AP-330

### Chemical Absorbent Pad

- Available in rolls, pads, pillows and booms for broad chemical compatibility



AP-331

### Chemical Spill Kits

- Various combination sets to handle different volume of acids, caustic oils, solvents and fuels



AP-332

### Safety Bins

- Chemical resistant, various capacities and colours available



AP-333

### Corrosive Liquid Safety Cabinets

- Available in yellow, red, green, white, blue for safe keeping of different chemicals.



AP-334

### Safety Hand Baton

- Battery Operated, different modes of blinking lights



AP-335

### Safety Cone/ Collapsible Cone

- PVC with reflective band, collapsible model for easy transport and storage



AP-336

### Safety Sign

- PP material, standalone or gang up, customised wordings



AP-337

### Safety Ladder

- Extra-large slip-resistant steps, tip & glide wheels and a safety bar for maximum stability



AP-338

### Safety Vest

- Polyester mesh with reflective tapes, highly visible, lightweight and durable

# Semiconductor Spare Parts



AP-339

## Metal Welded Bellows

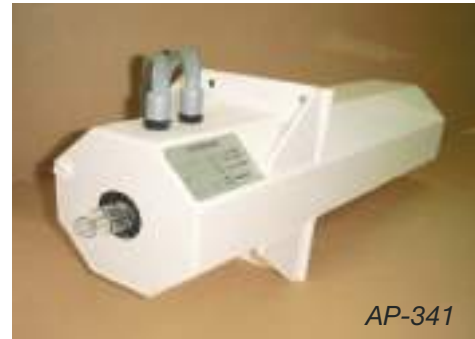
- Material: SUS304L, SUS316L, AM350 , HC-276



AP-340

## Orion Heat Exchanger

- OEM P/N: 0190-10030



AP-341

## Chemical Inline Heater

- CLH-2044-SEH (4.4kW)



AP-342

## Iwaki Bellows Pump

- OEM P/N: FF-30HT2



AP-343

## Ferrotec Vacuum Feedthrough

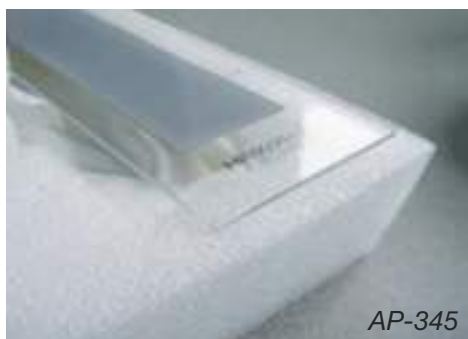
- OEM P/N: MJ3-067110-A



AP-344

## Kaijo 300mm Megasonic Generator

- OEM P/N: 0190-08582



AP-345

## Kaijo 300mm Transducer Plate

- OEM P/N: 0190-25073



AP-346

## Damping Gasket 5 Zone

- OEM P/N: 0021-24349



AP-347

## Applied & Ebara CMP Retaining Rings

- Engineering plastics (PPS, PEEK, PEEK with carbon)



AP-348

## Parts Improvement & 2nd Sourcing

- Parts Design and Production



AP-349

## Turbopump Refurbishment

- Edwards, Ulvac, EBARA, Leybold, Shimadzu



## NOTES

## NOTES

# ACEPLAS GROUP OF COMPANIES

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