

CONSUMABLES

INTERNATIONAL BROCHURE :: 2024





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INTRODUCTION

"At Micronclean, our passion is to be the first to develop new technological solutions that change the shape of the markets we serve creating quality and efficiency for our customers."

For over 40 years Micronclean has focused on cleanroom contamination control products for companies in the pharma, healthcare, microelectronics, aerospace and semiconductor industries. As a result, we are incredibly proud of our cleanroom consumables range which we have sold to over 30 countries around the world in the last 5 years.

The 2024 edition of our Consumables Catalogue has been updated to include our new world beating rotational disinfectants Alpha Plus and Beta Plus which uses patent protected technology, and a description of our new Micronclean Assembly production facility.

Having increased our UK production capability, we are in position to not only to manufacture more of our product and deliver improved stock levels to meet increasing customer demand but also welcome current and potential customers to visit and audit our facilities. For those products we do not manufacture we have full control of the supply chain and set the specification.

For more information on any of our product lines please visit our website www.micronclean.com or contact us directly on cs@micronclean.co.uk or +44 (0) 1754 767377

Angela Holland
Group Product Manager Consumables

REGIONAL ORDERING AND LABELS

MICRONCLEAN UPDATES ITS PRODUCT LABELS TO DEAL WITH DEMAND FROM EXPORT MARKETS.

Following increasing demand for our market leading disinfectant and cleaning products, we have had to enhance our existing product labels to ensure that we remain compliant.

As a result, we have generated an enhanced label which enables us to remain compliant with labeling regulations and allows us to carry up to three languages in addition to English.

So, the result of these changes is that the product code for our existing CleanGuard 1 IPA 500ml Trigger Spray Sterile will migrate from the current ZSAL64499 to ZSAL64499-A for region A orders, ZSAL64499-B for region B orders and so on. Note this regionalisation only affects products with active chemicals.

The new look labels with the associated regional codes for products will be rolled out progressively across our whole consumable range.

Regional Labels in Use

For a UK consumable customer, the default option will always be that they order Region A products and they will normally receive Region A products. However, as the English language is on the majority of labels and labelling regulations are common across regions A-E, J and H, and we might on occasion substitute the same product with a region K label for example.

For a Micronclean customer in Italy for instance, the product should always be ordered for Region B and to comply with the local language regulations we will supply the product with Region B labelling.

For regions F, G, H and I, the labelling regulations are country specific and as such no substitutions are possible.

Please note if you have any questions please do not hesitate to contact us.

REGIONS	A	UK Ireland Germany Austria
	B	UK Spain Portugal Italy
	C	UK France Belgium Holland
	D	UK Sweden Denmark Norway
	E	UK Greece Poland
	F	China
	G	Australia
	H	Brazil
	I	India
	J	UK Croatia Turkey
	K	UK Slovenia Hungary

DISINFECTANTS AND DETERGENT



INTRODUCING ALPHA PLUS AND BETA PLUS

BACKGROUND AND REGULATION

Annex 1 of EU GMP provides specific guidance on the manufacture of sterile medicinal products and the latest version of the guidance came into force on August 25th, 2023.

In terms of disinfection and cleaning Annex 1 states that for disinfection to be effective it must be a two-stage process. The first stage should be a process to remove surface contamination and the second stage should be disinfection using a rotational system based on two types of disinfectants which have different modes of action.

Additionally, for cleanrooms of GMP grade A or B these disinfectants must be sterile. This sterility is almost always achieved via gamma irradiation of the disinfectant product. Aseptic manufacturing of the disinfectant is also an option, however, this is fraught with higher risks, lower sterility assurance and higher validation demands.

The biocides used in sterile cleanroom disinfectants are drawn from a relatively small number of options (due to various regulatory, commercial and technical reasons) with ethanol, isopropanol, triamines and quaternary ammonium compounds making up >90% of the non-sporicidal cleanroom disinfectant biocides. Ethanol and isopropanol are often not suitable for the surface disinfection of cleanrooms due to the evaporative nature of the 70% solutions (and therefore the inherent issues with contact time and workplace exposure limits). This leaves quaternary ammonium and triamine compounds as the most versatile, practical and effective means of disinfecting a cleanroom.

THE PERFORMANCE OF CURRENT DISINFECTANTS ON THE MARKET

In trying to develop new and improved versions of its quaternary ammonium and orthogonal triamine based cleanroom disinfectants (Alpha and Beta), Micronclean's Research and Development department subjected various leading sterile cleanroom disinfectants on the market, to a battery of in-depth tests. This revealed the surprising result that none of those analysed passed the standard EN tests for cleanroom disinfectant efficacy (EN13697, EN1276 and EN1650) (see Table 1).

Disinfectant	Type	Sterilisation?	EN 13697 Bacteria Surface				EN 1276 Bacteria Suspension				EN 13697 Fungi Surface		EN 1650 Fungi Suspension	
			P.aeruginosa	E.coli	S.aureus	E.hirae	P.aeruginosa	E.coli	S.aureus	E.hirae	A.brasiliensis	C.albicans	A.brasiliensis	C.albicans
Popular Cleanroom Disinfectant A	Quat	Aseptic	FAIL	FAIL	PASS	PASS	PASS	PASS	PASS	PASS	FAIL	FAIL	FAIL	PASS
Popular Cleanroom Disinfectant B	Quat	Gamma	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
Popular Cleanroom Disinfectant C	Triamine	Gamma	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	FAIL	FAIL	FAIL	PASS
Popular Cleanroom Disinfectant D	Quat	Gamma	PASS	PASS	PASS	FAIL	PASS	PASS	PASS	PASS	FAIL	FAIL	FAIL	PASS
Popular Cleanroom Disinfectant E	Quat	Gamma	FAIL	PASS	PASS	PASS	PASS	PASS	PASS	PASS	FAIL	FAIL	FAIL	FAIL
Popular Cleanroom Disinfectant F	Triamine	Gamma	PASS	PASS	FAIL	PASS	PASS	PASS	PASS	PASS	FAIL	FAIL	FAIL	PASS

Table 1: EN disinfectant test results for various popular cleanroom disinfectants on the market.

This then leads to a series of questions such as

- Are your cleanroom rotational disinfectants working as well as you want them to?
- Are the EN test results pre or post gamma sterilisation?
- Have your sterile disinfectants been specially designed for cleanroom use?
- Have they been specifically formulated to work after gamma sterilisation?

INTRODUCING ALPHA PLUS AND BETA PLUS

INTRODUCING ALPHA PLUS AND BETA PLUS

To address these questions and give the market access to proven disinfectant performance Micronclean has just launched two new sterile rotational disinfectants, specifically designed for cleanrooms, which do pass the EN efficacy tests post-gamma irradiation.

These disinfectants, Alpha Plus and Beta Plus, can withstand the effects of gamma sterilisation via two patent pending solutions to the problem, unique to Micronclean, and which are the result of several years of R&D development. The results for Alpha Plus and Beta Plus are shown in Table 2 and show that unlike the existing options in the marketplace Alpha Plus and Beta Plus have proven performance against the standard EN tests for cleanroom disinfectant efficacy.

Disinfectant	Type	Sterilisation?	EN 13697 Bacteria Surface				EN 1276 Bacteria Suspension				EN 13697 Fungi Surface		EN 1650 Fungi Suspension	
			P.aeruginosa	E.coli	S.aureus	E.hirae	P.aeruginosa	E.coli	S.aureus	E.hirae	A.brasiliensis	C.albicans	A.brasiliensis	C.albicans
Alpha Plus	Triamine	Gamma	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Beta Plus	Quat	Gamma	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Popular Cleanroom Disinfectant A	Quat	Aseptic	FAIL	FAIL	PASS	PASS	PASS	PASS	PASS	PASS	FAIL	FAIL	FAIL	PASS
Popular Cleanroom Disinfectant B	Quat	Gamma	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
Popular Cleanroom Disinfectant C	Triamine	Gamma	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	FAIL	FAIL	FAIL	PASS
Popular Cleanroom Disinfectant D	Quat	Gamma	PASS	PASS	PASS	FAIL	PASS	PASS	PASS	PASS	FAIL	FAIL	FAIL	PASS
Popular Cleanroom Disinfectant E	Quat	Gamma	FAIL	PASS	PASS	PASS	PASS	PASS	PASS	PASS	FAIL	FAIL	FAIL	FAIL
Popular Cleanroom Disinfectant F	Triamine	Gamma	PASS	PASS	FAIL	PASS	PASS	PASS	PASS	PASS	FAIL	FAIL	FAIL	PASS

Table 2: EN disinfectant test results for Micronclean's Alpha Plus and Beta Plus compared to various popular cleanroom disinfectants on the market.

In addition, the performance of Alpha Plus and Beta Plus has been proven in full scale independent field trials which are included in the full validation guide for Alpha Plus and Beta Plus.

AVAILABLE PRODUCT FORMS

Micronclean's patent pending new cleanroom rotational disinfectants Alpha Plus and Beta Plus are now available to supplement your contamination control strategy, in trigger spray, presaturated wipe, 5L RFU or presaturated mop formats as detailed in the following pages.



MICRONCLEAN TRIGGER SPRAY FEATURES

All Micronclean Trigger Sprays feature an integrated filter in the trigger head to ensure the product is not technically compromised.

All Micronclean Trigger Spray products deliver a validated in use life of 12 weeks from first opening to reduce unnecessary waste.

None of the Micronclean Trigger Spray products use 'bag in bottle' technology. This gives easy viewing of liquid level through transparent bottle.

All Micronclean Trigger Spray bottles feature an ergonomic bottle which gives a low centre of gravity.

All Micronclean Trigger Spray products feature a mechanically sealed trigger head to prevent leakage during transport.

All Micronclean Trigger Spray products are 0.2 micron filtered at point of fill.





RECYCLING INFORMATION



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ALPHA PLUS, BETA PLUS AND DELTA TRIGGER SPRAY CLEANGUARD 3, 4 AND 5

USAGE

Alpha Plus and Beta Plus are unique broad spectrum disinfectants designed to be used in rotation in conjunction with Delta neutral detergent and as such this system is fully compliant with Annex 1.

Alpha Plus and Beta Plus show good efficacy against a range of bacteria and fungi even after irradiation. They have low toxicity and do not contain any hazardous aldehydes or chlorine generating components.

Alpha Plus, Beta Plus, and Delta have been specifically designed for regular use in cleanrooms and other controlled environments and are colourless and fragrance-free. They are non-corrosive having been tested against a wide range of cleanroom surfaces including stainless steel, vinyl, resin, plastics, and rubber.

BENEFITS

- No bag in the bottle
- Blended with WFI quality water
- Filtered to 0.2µm at point of fill
- Mechanically sealed trigger head
- Low centre of gravity bottle design
- Transparent bottle
- Long trigger handle, ease of use

FEATURES

- Trigger spray with spray / off feature
- 2 year shelf life
- Gamma irradiation stable
- Supplied double bagged

Product Code	Description	Size	Pack Qty	Case Qty
ZSAP50006	Alpha Plus 500ml Trigger Spray Sterile	500ml	Each	6 x 500ml
ZSBT50006	Beta Plus 500ml Trigger Spray Sterile	500ml	Each	6 x 500ml
ZSND05950	Delta 950ml Trigger Spray Sterile	950ml	Each	15 x 950ml

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RECYCLING INFORMATION

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ALPHA PLUS, BETA PLUS, DELTA AND DI 5L RFU CLEANGUARD 3, 4 , 5 AND 6

USAGE

Alpha Plus and Beta Plus are unique broad spectrum disinfectants designed to be used in rotation in conjunction with Delta neutral detergent and as such this system is fully compliant with Annex 1.

Alpha Plus and Beta Plus show good efficacy against a range of bacteria and fungi even after irradiation. They have low toxicity and do not contain any hazardous aldehydes or chlorine generating components.

Alpha Plus, Beta Plus, and Delta have been specifically designed for regular use in cleanrooms and other controlled environments and are colourless and fragrance-free. They are non-corrosive having been tested against a wide range of cleanroom surfaces including stainless steel, vinyl, resin, plastics, and rubber.

BENEFITS

Blended with WFI quality water
Bulk container for larger surface areas
Easy to use with bucket mopping systems
Filtered to 0.2µm at point of fill

FEATURES

Tamper evident PP vented cap
Gamma irradiation stable
2 year shelf life
Supplied double bagged

Product Code	Description	Size	Pack Qty	Case Qty
RSAP5LT02	Alpha Plus 5 Litre RFU Sterile	5L	Each	2 x 5L
RSBT5LT02	Beta Plus 5 Litre RFU Sterile	5L	Each	2 x 5L
ZSND05005	Delta 5 Litre RFU Sterile	5L	Each	2 x 5L
ZSDI82005	DI Water 5 Litre RFU Sterile	5L	Each	2 x 5L
ZNDI82005	DI Water 5 Litre RFU Non-sterile	5L	Each	2 x 5L

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RECYCLING INFORMATION



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ALPHA PLUS, BETA PLUS AND DELTA POLYCELLULOSE POUCH WIPES VERIGUARD 2

USAGE

Alpha Plus and Beta Plus are unique broad spectrum disinfectants designed to be used in rotation in conjunction with Delta neutral detergent and as such this system is fully compliant with Annex 1.

Alpha Plus and Beta Plus show good efficacy against a range of bacteria and fungi even after irradiation. They have low toxicity and do not contain any hazardous aldehydes or chlorine generating components.

Alpha Plus, Beta Plus, and Delta have been specifically designed for regular use in cleanrooms and other controlled environments and are colourless and fragrance-free. They are non-corrosive having been tested against a wide range of cleanroom surfaces including stainless steel, vinyl, resin, plastics, and rubber.

BENEFITS

Increased liquid retention from re-sealable pouch
Designed for small batch manufacturing
High absorbency

FEATURES

White hydro-entangled Polycellulose wipe
68gsm wipe weight
2 years shelf life
Supplied double bagged

Product Code	Description	Size	Pack Qty	Case Qty
WSAPC1510	Alpha Plus Sessional Polycellulose C-folded Pouch Wipe Sterile	230mm x 230mm	15	10 x 15
WSBPC1510	Beta Plus Sessional Polycellulose C-folded Pouch Wipe Sterile	230mm x 230mm	15	10 x 15
WSD05009	Delta Sessional Polycellulose C-Folded Pouch Wipe Sterile	230mm x 230mm	15	10 x 15

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RECYCLING INFORMATION

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ALPHA PLUS, BETA PLUS AND DELTA DISPOSABLE MICROFIBRE MOP STERILE PUREGUARD 3, 4 AND 5

USAGE

Alpha Plus and Beta Plus are unique broad spectrum disinfectants designed to be used in rotation in conjunction with Delta neutral detergent and as such this system is fully compliant with Annex 1.

Alpha Plus and Beta Plus show good efficacy against a range of bacteria and fungi even after irradiation. They have low toxicity and do not contain any hazardous aldehydes or chlorine generating components.

Alpha Plus, Beta Plus, and Delta have been specifically designed for regular use in cleanrooms and other controlled environments and are colourless and fragrance-free. They are non-corrosive having been tested against a wide range of cleanroom surfaces including stainless steel, vinyl, resin, plastics, and rubber.

BENEFITS

Uniformly dosed to achieve a coverage of 15m²

No need for in cleanroom mixing or dosing

2 pocket design enables a hands-free and secure connection to the mop frame

Eliminates the risk associated with exposed chemicals and soiled water

FEATURES

Proven 2 year shelf life
Individually packed mops are suitable for smaller cleanrooms

Multi packed mops are suitable for larger cleanrooms

Supplied double bagged

Product Code	Description	Size	Pack Qty	Case Qty
MSAMF0130	Alpha Plus Individually Packed Disposable Microfibre Mop Sterile	440mm x 140mm	1	30 Packs of 1
MSAMF1003	Alpha Plus Multi Packed Disposable Microfibre Mop Sterile	440mm x 140mm	10	3 Packs of 10
MSBMF0130	Beta Plus Individually Packed Disposable Microfibre Mop Sterile	440mm x 140mm	1	30 packs of 1
MSBMF1003	Beta Plus Multi Packed Disposable Microfibre Mop Sterile	440mm x 140mm	10	3 Packs of 10
MSMN24016	Delta Individually Packed Disposable Microfibre Mop Sterile	440mm x 140mm	1	30 Packs of 1
MSMN21016	Delta Multi Packed Disposable Microfibre Mop Sterile	440mm x 140mm	10	3 Packs of 10

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ALCOHOLS



WHAT IS CLEANROOM GRADE ALCOHOL?

Cleanroom grade alcohol needs to have a broad spectrum of antimicrobial activity, rapid antimicrobial action, rapid evaporation to minimise surface wet times, and extremely low residues.

To clean a surface the cleaner must be able to remove soiling, evaporate quickly, and without leaving a residue when evaporating. To disinfect surfaces the solution must be highly antimicrobial: killing bacteria, fungi, and other microorganisms. It is important to note that alcohols are not effective against spore-forming bacteria and therefore a sporicidal solution must also be used alongside alcohol disinfectants.

Micronclean can supply two of the most common alcohols used in cleanrooms which are IPA and IMS. Both are effective antimicrobial agents and leave little to no residue.

IPA stands for isopropyl alcohol also known by its full chemical name as propan-2-ol

IMS stands for industrial methylated spirits also known as denatured alcohol. Our IMS is a mixture of ethanol and isopropyl alcohol.

All our IPA and IMS products are mixed with water for injection grade (WFI) to give 70% alcohol solutions which is the most effective concentration to use in a cleanroom environment.





RECYCLING INFORMATION



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ALCOHOL TRIGGER SPRAY

CLEANGUARD 1 AND 2

USAGE

Designed for use in Cleanrooms
Cleanroom transfer process
Disinfection of hard surfaces
Use within Isolators / LAFs

BENEFITS

No bag in the bottle
70% alcohol blended with WFI quality water
Filtered to 0.2µm at point of fill
Mechanically sealed trigger head
Low centre of gravity bottle design
Transparent bottle
Long trigger handle, ease of use
12 week sterility from first use

FEATURES

Trigger spray with spray / off feature
2 year shelf life
Gamma irradiation stable
Supplied double bagged

Product Code	Description	Size	Pack Qty	Case Qty
ZSAL64499	IPA 500ml Trigger Spray Sterile	500ml	Each	24 x 500ml
ZSAL64950	IPA 950ml Trigger Spray Sterile	950ml	Each	15 x 950ml
ZNAL64950	IPA 950ml Trigger Spray Non-Sterile	950ml	Each	15 x 950ml
ZSAL65499	IMS 500ml Trigger Spray Sterile	500ml	Each	24 x 500ml
ZSAL65950	IMS 950ml Trigger Spray Sterile	950ml	Each	15 x 950ml
ZNAL65950	IMS 950ml Trigger Spray Non-Sterile	950ml	Each	15 x 950ml

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RECYCLING INFORMATION

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IPA AND IMS 5L RFU CLEANGUARD 1 AND 2

USAGE

Disinfection of hard surfaces

BENEFITS

- 70% Alcohol blended with WFI quality water
- Bulk container for larger surface areas
- Easy to use with bucket mopping systems
- Filtered to 0.2µm at point of fill

FEATURES

- Tamper evident PP vented cap
- Gamma irradiation stable
- 2 year shelf life
- Supplied double bagged

Product Code	Description	Size	Pack Qty	Case Qty
ZSAL64005	IPA 5 Litre RFU Sterile	5L	Each	2 x 5L
ZSAL65005	IMS 5 Litre RFU Sterile	5L	Each	2 x 5L

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RECYCLING INFORMATION



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IPA POLYPROPYLENE TUB WIPE

VERIGUARD 1

USAGE

Hard surface wiping particularly suited to outer areas

BENEFITS

Designed for low grade cleanroom areas
Designed for high volume usage
Long lasting alcohol retention
Re-fillable pouch available

FEATURES

Continuous filament thermobonded nonwoven polypropylene wipe
18gsm wipe weight
2 years shelf life
Sterile version only supplied double bagged

Product Code	Description	Size	Pack Qty	Case Qty
WSVG05020	IPA Polypropylene Tub Wipe Sterile	200mm x 200mm	200	12 x 200
WNVG05020	IPA Polypropylene Tub Wipe Non-Sterile	200mm x 200mm	200	12 x 200

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RECYCLING INFORMATION

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IPA AND IMS POLYCELLULOSE POUCH WIPE

VERIGUARD 2

USAGE

Hard surface wiping particularly suited to transfer processes

BENEFITS

- Increased alcohol retention from re-sealable pouch
- High absorbency
- Strong multifunctional wipe
- Small pack size available for small batch manufacturing, large pack size suitable for large batch manufacturing

FEATURES

- White hydro-entangled Polycellulose wipe
- 68gsm wipe weight
- 2 years shelf life
- Supplied double bagged

Product Code	Description	Size	Pack Qty	Case Qty
WSVG04023	IPA Polycellulose C-folded Pouch Wipes Sterile	230mm x 230mm	100	8 x 100
WSCW92009	IPA Sessional Polycellulose C-folded Pouch Wipes Sterile	230mm x 230mm	15	40 x 15
WNVG04023	IPA Polycellulose C-folded Pouch Wipes Non-Sterile	230mm x 230mm	100	8 x 100
WSVG09023	IMS Polycellulose C-folded Pouch Wipes Sterile	230mm x 230mm	100	8 x 100
WSCW91009	IMS Sessional Polycellulose C-folded Pouch Wipes Sterile	230mm x 230mm	15	40 x 15

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RECYCLING INFORMATION



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IPA POLYESTER POUCH WIPE

VERIGUARD 3

USAGE

Cleanroom hard surface wipe
Use in Isolators / Laminar flow cabinets

BENEFITS

Increased alcohol retention from re-sealable pouch
Laser cut edges
Strong multifunctional wipe
Small pack size available for small batch manufacturing, medium pack size suitable for larger batch manufacturing

FEATURES

100% continuous filament polyester wipe
2 years shelf life
Supplied double bagged

Product Code	Description	Size	Pack Qty	Case Qty
WSVG06030	IPA Sessional Polyester V-folded Pouch Wipe Sterile	300mm x 300mm	15	30 x 15
MCZSLA50S	IPA Polyester Laundered Non-folded Pouch Wipes Sterile	300mm x 300mm	50	5 x 50
WNVG06030	IPA Sessional Polyester V-folded Pouch Wipe Non-Sterile	300mm x 300mm	15	30 x 15
MCZNLA50N	IPA Polyester Laundered Non-folded Pouch Wipes Non-Sterile	300mm x 300mm	50	5 x 50

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RECYCLING INFORMATION

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IMS SILVER PACK POLYETHYLENE / POLYPROPYLENE PRE-SATURATED WIPE VERIGUARD 9

USAGE

Cleanroom hard surface wipe

BENEFITS

- Increased alcohol retention from re-sealable pouch
- Designed for large batch manufacturing
- Blended with de-ionised water (DI)
- Long lasting alcohol retention

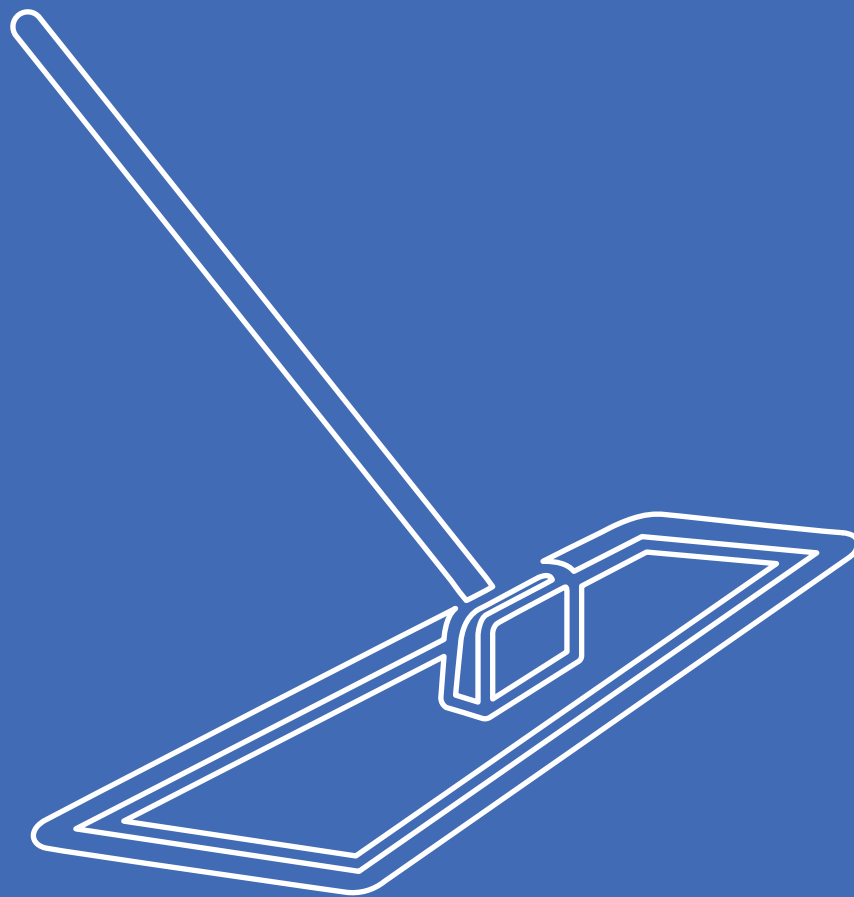
FEATURES

- Nonwoven interleaved wipes
- 2 years shelf life
- Supplied double bagged

Product Code	Description	Size	Pack Qty	Case Qty
WSCW97ZZZ	IMS Silver Pack Polyethylene / Polypropylene Z-folded Wipes Sterile	200mm x 220mm	200	8 x 200

The above product table does not show the regional product codes for clarity. However, to ensure that product labels with the correct languages are ordered and dispatched please ensure that the correct regional suffix is ordered as per the table on page 2.

DISPOSABLE MOP SYSTEM





RECYCLING INFORMATION

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ISOLATOR BONNET AND TOOLS

PUREGUARD 6 AND 7

USAGE

Designed specifically to help clean the inside of isolators, RABs and LAF cabinets

BENEFITS

Universal fit
Dual layer polyester guarantees high levels of absorbency
Lightweight isolator tool available in 2 handle lengths with 360° rotation

FEATURES

Low linting, dual-layer 100% continuous filament polyester for increased absorbency
250gsm bonnet weight
Supplied sterile one per bag ready for use
2 year sterile shelf life
Handle supplied Non-Sterile ready for sterilisation

Product Code	Description	Size	Pack Qty	Case Qty
ISED0140	Dry Dual Layer Polyester Laundered Isolator Bonnet Sterile	One Size	EA	40
ZNSS01035	Stainless Steel Isolator Cleaning Tool 35cm Non-Sterile	One Size	EA	1
ZNSS01061	Stainless Steel Isolator Cleaning Tool 61cm Non-Sterile	One Size	EA	1



RECYCLING INFORMATION



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IPA AND IMS DISPOSABLE MICROFIBRE MOP STERILE PUREGUARD 1 AND 2

USAGE

Designed for use on cleanroom floors

BENEFITS

Uniformly dosed to achieve a coverage of 15m²
No need for in cleanroom mixing or dosing
2 pocket design enables a hands-free and secure connection to the mop frame
Eliminates the risk associated with exposed chemicals and soiled water

FEATURES

Proven 2 year shelf life
Individually packed mops are suitable for smaller cleanrooms
Multi packed mops are suitable for larger cleanrooms
Supplied double bagged

Product Code	Description	Size	Pack Qty	Case Qty
MSMI24016	IPA Individually Packed Disposable Microfibre Mop Sterile	440mm x 140mm	1	30 Packs of 1
MSMI21016	IPA Multi Packed Disposable Microfibre Mop Sterile	440mm x 140mm	10	3 Packs of 10
MSME24016	IMS Individually Packed Disposable Microfibre Mop Sterile	440mm x 140mm	1	30 Packs of 1
MSME21016	IMS Multi Packed Disposable Microfibre Mop Sterile	440mm x 140mm	10	3 Packs of 10

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+ info see page 48



DRY DISPOSABLE MICROFIBRE MOP STERILE

PUREGUARD 6

USAGE

Designed for use on cleanroom floors

BENEFITS

2 pocket design enables a hands-free and secure connection to the mop frame

FEATURES

Proven 2 year shelf life
Individually packed mops are suitable for smaller cleanrooms
Multi packed mops are suitable for larger cleanrooms
Supplied double bagged

Product Code	Description	Size	Pack Qty	Case Qty
MSMD36106	Dry Individually Packed Disposable Microfibre Mop Sterile	440mm x 140mm	1	30 Packs of 1
MSMD361166	Dry Multi Packed Disposable Microfibre Mop Sterile	440mm x 140mm	10	4 Packs of 10

The above product table does not show the regional product codes for clarity. However, to ensure that product labels with the correct languages are ordered and dispatched please ensure that the correct regional suffix is ordered as per the table on page 2.

RECYCLING INFORMATION

Please see individual product specifications



WASTE BAGS, MOP HEADS, TROLLEY AND OTHER ACCESSORIES

PUREGUARD 7 AND 8

BENEFITS

Designed to work alongside the PureGuard Mopping System

Product Code	Description	Size	Pack Qty	Case Qty
BSP1C1012	Polyethylene Bag Sterile	One Size	10	12 Packs of 10
MTSS01001	Stainless Steel Standard Mop Trolley Non-Sterile	One Size	Each	1
MTSS01001	Stainless Steel Lightweight Mop Frame 40cm Non-Sterile	One Size	Each	1
MFSS79226	Stainless Steel Shrouded Locking Mop Frame 40cm Non-Sterile	One Size	Each	1
MHSS02001	Stainless Steel Fixed Mop Handle 142cm Non-Sterile	One Size	Each	1
MHSS02002	Aluminium Adjustable Mop Handle 100cm-180cm Non-Sterile	One Size	Each	1
MTSS01001	Stainless Steel Standard Mop Trolley Non-Sterile	One Size	Each	1

The above product table does not show the regional product codes for clarity. However, to ensure that product labels with the correct languages are ordered and dispatched please ensure that the correct regional suffix is ordered as per the tables on page.

PUREGUARD MOPPING SYSTEM

HOW TO MOP A CLEANROOM

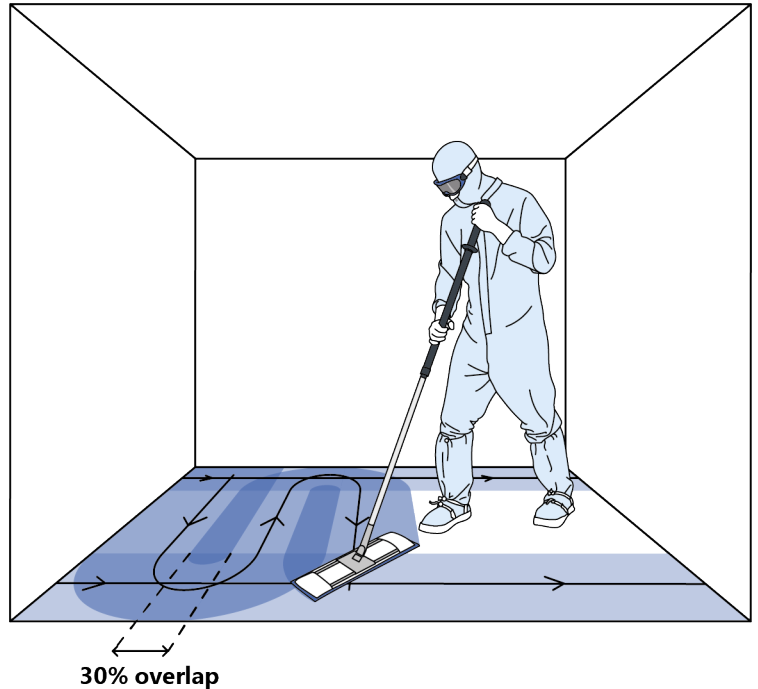
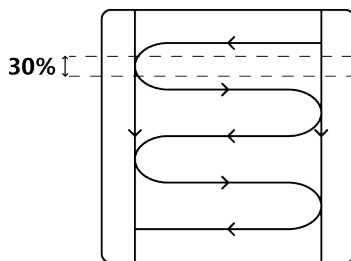
THE S-CURVE METHOD

Mop the two edges either side of your cleanroom area.

To reduce contamination, avoid stepping on any cleaned areas.

Mop across your cleanroom area using an s-shape. Keep lines as neat as possible.

Overlap paths by 30%.



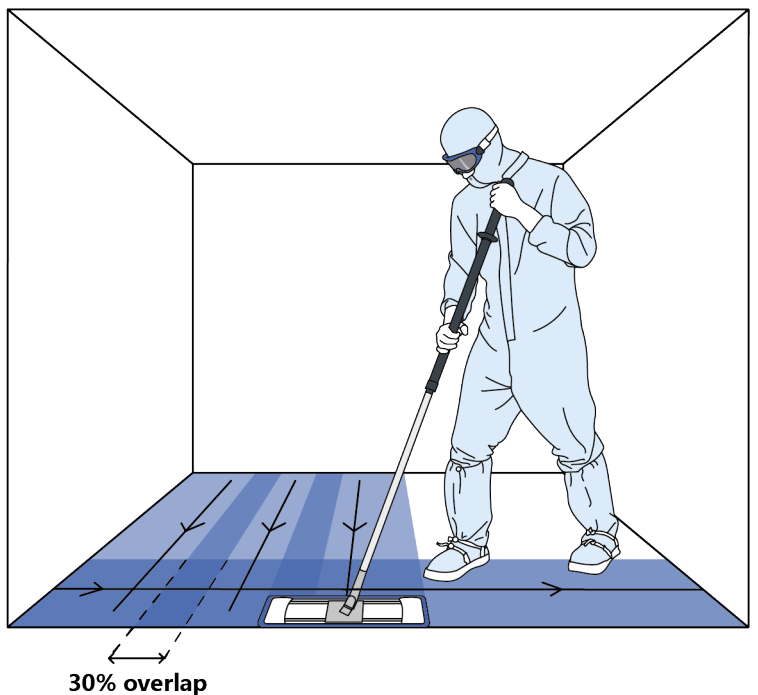
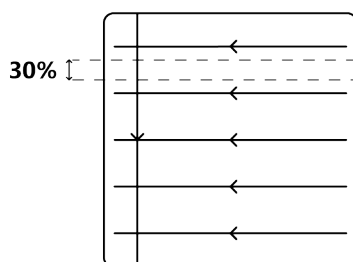
THE LIFT AND LAY METHOD

Place your mop at the edge of your cleanroom area and mop across a straight line.

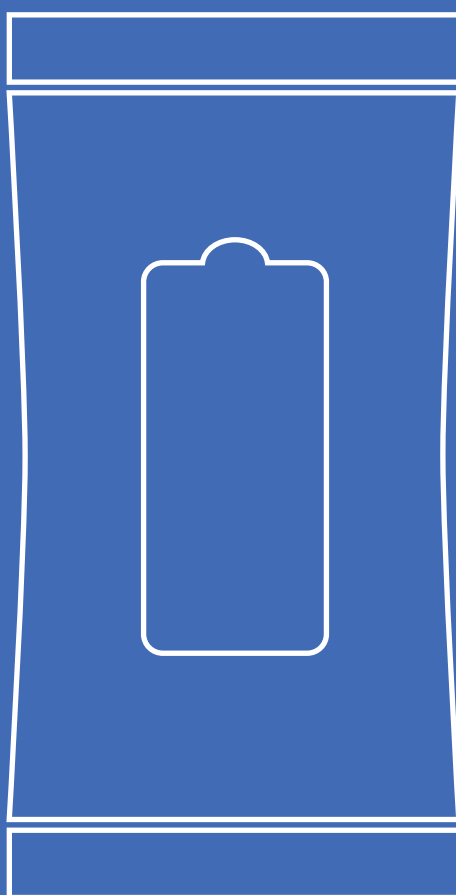
Repeat the straight lines, ensuring paths overlap by 30%.

To reduce contamination, avoid stepping on any cleaned areas.

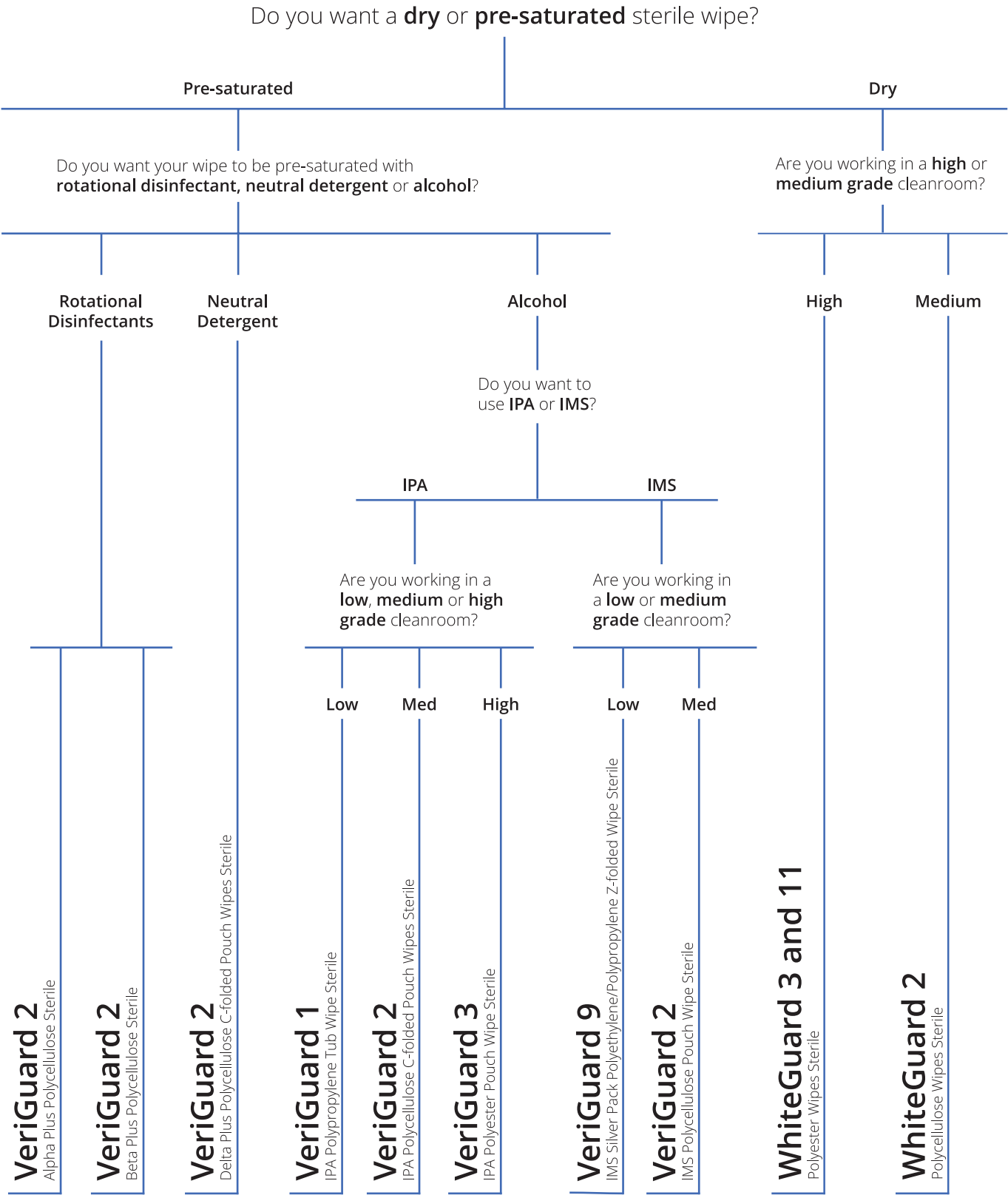
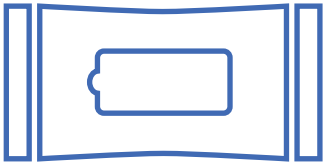
Finally mop along the edge of the room.



DRY WIPES



STERILE WIPE DECISION TREE



High Grade Cleanroom
Medium Grade Cleanroom
Low Grade Cleanroom

ISO Grade 4
ISO Grade 6
ISO Grade 8+

EU GMP Grade A
EU GMP Grade B
EU GMP Grade C/D

RECYCLING INFORMATION



+ info see page 48



POLYCELLULOSE WIPE STERILE WHITEGUARD 2

USAGE

Hard surface wipe
Transfer of product into cleanrooms

BENEFITS

Excellent absorbency

FEATURES

Low linting, multipurpose wipes
68gsm wipe weight
Hydroentangled 55% Polyester, 45% Cellulose blend

Product Code	Description	Size	Pack Qty	Case Qty
WSWG04009	Polycellulose Non-Folded Wipe Sterile	230mm x 230mm (9" x 9")	100	10 Packs of 100
WSWG06009	Polycellulose Non-Folded Wipe Sterile	230mm x 230mm (9" x 9")	300	8 Packs of 300
WSWG04012	Polycellulose Non-Folded Wipe Sterile	300mm x 300mm (12" x 12")	100	10 Packs of 100
WCS93009	Polycellulose Non-Folded Wipe Sterile	230mm x 230mm (9" x 9")	300	8 Packs of 300
WCS93012	Polycellulose Non-Folded Wipe Sterile	300mm x 300mm (12" x 12")	10 x 10	17 Packs of 100



POLYCELLULOSE WIPE NON-STERILE WHITEGUARD 2

USAGE

Hard surface wipe
Transfer of product into cleanrooms

BENEFITS

Excellent absorbency

FEATURES

Low linting, multipurpose wipes
68gsm wipe weight
Hydroentangled 55% Polyester, 45% Cellulose blend

Product Code	Description	Size	Pack Qty	Case Qty
WNWG04009	Polycellulose Non-Folded Wipe Non-Sterile	230mm x 230mm (9" x 9")	100	10 Packs of 100
WNWG06009	Polycellulose Non-Folded Wipe Non-Sterile	230mm x 230mm (9" x 9")	300	16 Packs of 300
WNWG04012	Polycellulose Non-Folded Wipe Non-Sterile	300mm x 300mm (12" x 12")	100	20 Packs of 100
WNCS93009	Polycellulose Non-Folded Wipe Non-Sterile	230mm x 230mm (9" x 9")	300	8 Packs of 300
WNCS93012	Polycellulose Non-Folded Wipe Non-Sterile	300mm x 300mm (12" x 12")	100	17 Packs of 100

RECYCLING INFORMATION



+ info see page 49



POLYESTER WIPE STERILE

WHITEGUARD 3 AND 11

USAGE

Hard surface wipe
Transfer of product into cleanrooms


BENEFITS



Ultra low linting wipe


FEATURES

Laser sealed edges to prevent linting
100% knit continuous filament polyester
Medium levels of absorbency

Product Code	Description	Size	Pack Qty	Case Qty
WSTG05009	Polyester Laundered Non-Folded Wipe Sterile	230mm x 230mm (9" x 9")	150	10 packs of 150
WSDPE5010	Polyester Laundered Non-Folded Wipe Sterile	300mm x 300mm (12" x 12")	50	12 packs of 50
WSPW80009	Polyester Laundered Non-Folded Wipe Sterile	230mm x 230mm (9"x9")	150	10 packs of 150
MCDELN50S	Polyester Laundered Single Layer Non-Folded Wipe Sterile	300mm x 300mm (12"x12")	50	10 packs of 50
MHPELN50S	Dual Layer Polyester Laundered Non-folded Wipe Sterile	300mm x 300mm (12" x 12")	50	4 packs of 50







RECYCLING INFORMATION

+ info see page 49



POLYESTER WIPE NON-STERILE

WHITEGUARD 3

USAGE

Hard surface wipe
Transfer of product into cleanrooms

BENEFITS

Ultra low linting wipe

FEATURES

Laser sealed edges to prevent linting
100% knit continuous filament polyester
Medium levels of absorbency

Product Code	Description	Size	Pack Qty	Case Qty
WNTG04009	Polyester Laundered Non-Folded Wipe Sterile	230mm x 230mm (9" x 9")	100	10 packs of 100
WNTG05009	Polyester Laundered Non-Folded Wipe Sterile	230mm x 230mm (9" x 9")	150	10 packs of 150
WNTG05012	Polyester Laundered Non-Folded Wipe Sterile	300mm x 300mm (12" x 12")	150	10 packs of 150
WNTG03012	Polyester Laundered Non-Folded Wipe Sterile	300mm x 300mm (12" x 12")	50	10 packs of 50

RECYCLING INFORMATION



+ info see page 49



MICRODENIER WIPE NON-STERILE WHITEGUARD 5

USAGE

Hard surface wipe
Excellent wipe for lens and screen cleaning

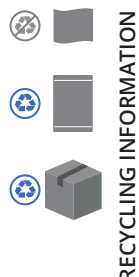
BENEFITS

Ultra low linting wipe

FEATURES

100% continuous filament nylon/polyester
wipe

Product Code	Description	Size	Pack Qty	Case Qty
WNMD04009	Microdenier Non-folded Wipe Non-Sterile	230mm x 230mm (9" x 9")	100	10 Packs of 100



RECYCLING INFORMATION

+ info see page 48



POLYCELLULOSE ROLL WIPE NON-STERILE

WHITEGUARD 7

USAGE

For use in support areas
Hard surface wipe

BENEFITS

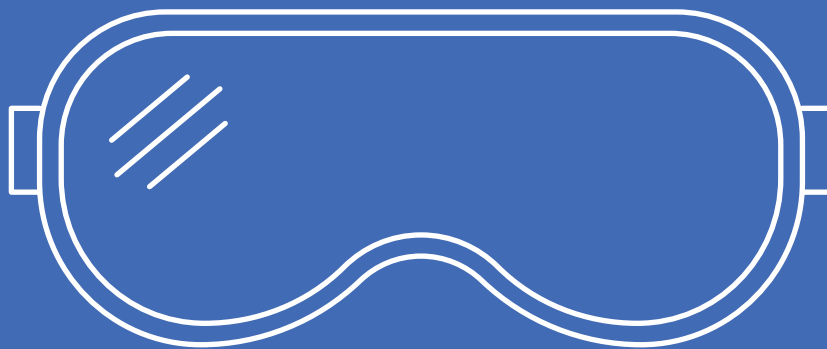
Excellent absorbency

FEATURES

Low linting, multipurpose wipes
Log roll of 400 wipes

Product Code	Description	Size	Pack Qty	Case Qty
WNPW81010	Polycellulose Roll Wipe Non-Sterile White	254mm x 381mm	400 sheets/roll	2 x 1 Roll
WNPB81010	Polycellulose Roll Wipe Non-Sterile Blue	254mm x 381mm	400 sheets/roll	2 x 1 Roll

GOGGLES





RECYCLING INFORMATION

+ info see page 49



INDIVIDUALLY PACKED GOGGLE NON-STERILE VISIONGUARD 1

USAGE

Specifically designed for use in
Cleanroom Environments

BENEFITS

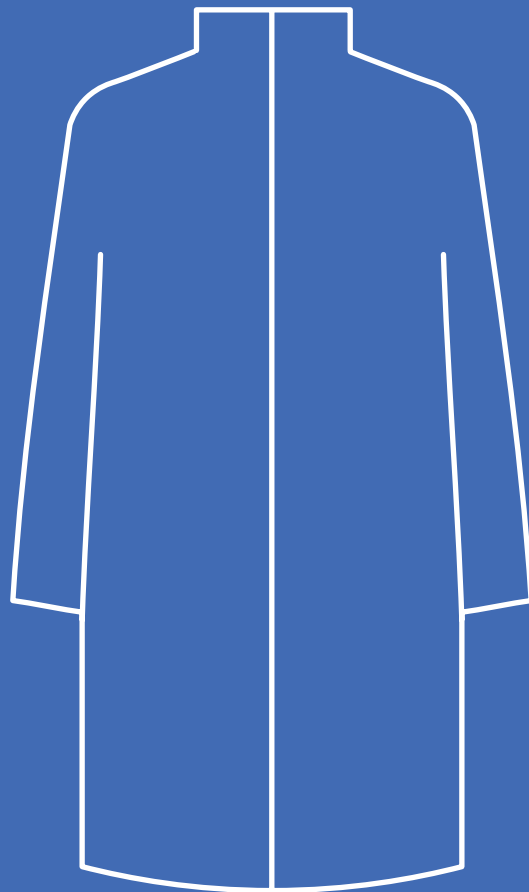
Fully compatible with the requirements of
Annex 1

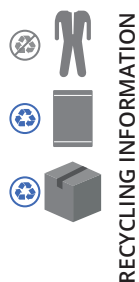
FEATURES

Supplied in a Non-Sterile condition but
packed in an Autoclave bag ready for
immediate sterilisation
40 process lifespan for goggles without
significant fogging
Lightweight, supplied with adjustable head
strap and easy-to-use snap-on clip
Indirect ventilation to top of goggle to prevent
fogging and protect from splashes
Compatible with most prescription glasses
EN 166 3 4 BT Compliant
CE and UKCA Marked

Product Code	Description	Size	Pack Qty	Case Qty
ONACL0112	Individually Packed Goggle Non-Sterile	One Size	1	12 Packs of 1

CLOTHING





+ info see page 49



DISPOSABLE COVERALL WITH INTEGRAL HOOD

SUREGUARD 1

USAGE

Designed for cleanroom use
Suitable for Cytotoxic work

BENEFITS

CE Marked to PPE Category III Type 5 & 6
Anti-static

FEATURES

Single use cleanroom coverall
CE and UKCA Marked.
Polypropylene with polyethylene laminate fabric
Integrated hood
Latex free elastic at hood, wrists and ankles
Available in Sterile and Non-Sterile Forms

Product Code	Description	Size	Pack Qty	Case Qty
DSWH04	Disposable Coverall with Integral Hood Sterile	SML - 2XL	1	25 Packs of 1
DNWH04	Disposable Coverall with Integral Hood Non-Sterile	SML - 2XL	1	25 Packs of 1



RECYCLING INFORMATION



+ info see page 49

DISPOSABLE COVERALL WITH INTEGRAL HOOD AND FEET STERILE

SUREGUARD 3

USAGE

Designed for cleanroom use
Suitable for Cytotoxic work

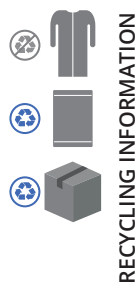
BENEFITS

CE Marked to PPE Category III Type 5 & 6
Anti-static

FEATURES

Single use cleanroom coverall
CE and UKCA Marked.
Polypropylene with polyethylene laminate fabric
Integrated hood
Latex free elastic at hood, wrists and ankles

Product Code	Description	Size	Pack Qty	Case Qty
DSWH21	Disposable Coverall with Integral Hood and Feet Sterile	SML - 2XL	1	25 Packs of 1



+ info see page 49



DISPOSABLE LABCOAT NON-STERILE SUREGUARD 2

USAGE

Designed for laboratory and cleanroom use

BENEFITS

CE Marked to PPE Category III Type 6
Anti-static

FEATURES

Single use cleanroom labcoat
CE and UKCA Marked
Polypropylene with polyethylene laminate fabric
Latex free elastic at wrist

Product Code	Description	Size	Pack Qty	Case Qty
DNWH10	Disposable Labcoat Non-Sterile	SML - 2XL	1	25 Packs of 1



RECYCLING INFORMATION



+ info see page 49

CLEANROOM POLYESTER SOCK NON-STERILE

TUFFGUARD 1

FEATURES

Specifically developed for use in Cleanrooms to help with compliance with Annex 1

BENEFITS

Sock shaped for wearer comfort

FEATURES

White sock shaped
100% synthetic fibres
One Size

Product Code	Description	Size	Pack Qty	Case Qty
SNWH50001	Polyester Cleanroom Sock Non-Sterile	One Size	50 (Pairs)	50



RECYCLING INFORMATION

+ info see page 49



FACEGUARD 3
FACEMASK WITH HEADLOOPS



FACEGUARD 1
FACEMASK WITH TIES



FACEGUARD 5 AND 6
BEARD SNOOD AND MOP CAP



FACEGUARD 2
FACEMASK WITH EARLOOPS

DISPOSABLE FACEMASK FACEGUARD 1, 2 AND 3 BEARD SNOOD AND MOB CAP NON-STERILE FACEGUARD 5 AND 6

FEATURES

DISPOSABLE FACEMASKS

One Size

Available with Ties, Earloops or Headloops

Available in Sterile and Non-Sterile forms

FEATURES

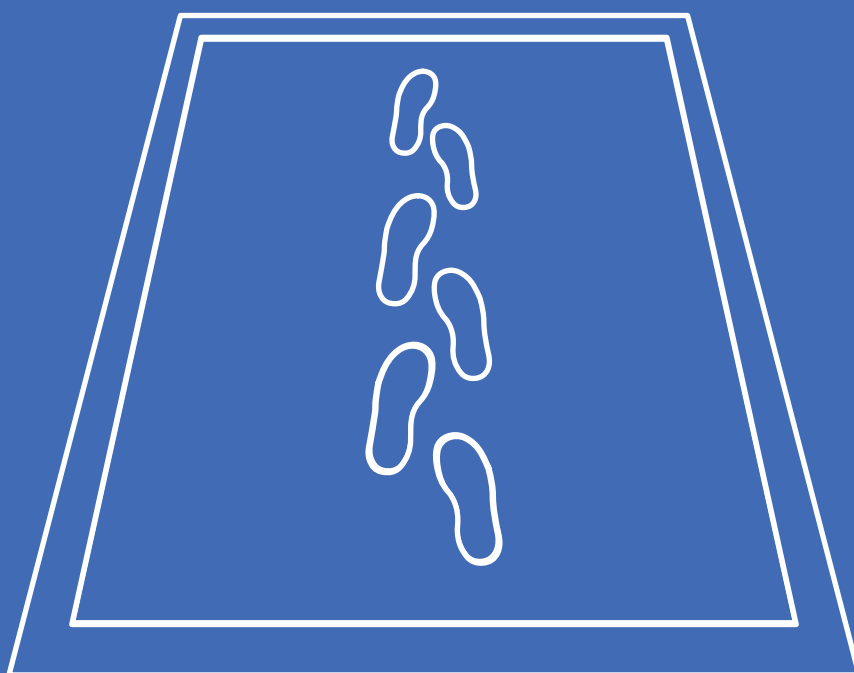
BEARD SNOOD AND MOP CAP

One Size

Comfort fit

Product Code	Description	Size	Pack Qty	Case Qty
MNTW01100	Multi Packed Tie-On Face Mask Non-Sterile	One Size	100	10 x 100
MNTW01020	Individually Packed Tie-On Face Mask Non-Sterile	One Size	20	50 x 20
MSTW01020	Individually Packed Tie-On Face Mask Sterile	One Size	20	15 x 20
MNEW01100	Multi Packed Earloop Face Mask Non-Sterile	One Size	100	10 x 100
MNEW01020	Individually Packed Earloop Face Mask Non-Sterile	One Size	20	50 x 20
MSHW01020	Individually Packed Earloop Face Mask Sterile	One Size	50	20 x 50
MSEW01020	Individually Packed Headloop Face Mask Sterile	One Size	20	25 x 20
MNHW01100	Multi Packed Headloop Face Mask Non-Sterile	One Size	100	10 x 100
MNHW01020	Individually Packed Headloop Face Mask Non-Sterile	One Size	20	50 x 20
MNWH01ZZZ	Beard Snood White Non-Sterile	One Size	100	5 X 100
HNWH01ZZZ	Mob Cap White Non-Sterile	One Size	100	10 X 100

MATS





+ info see page 49



ACCESS MAT MEDIUM AND LOW TACK NON-STERILE GUARDTACK 1 AND 2

USAGE

Peel-Off access mat designed to capture contamination before entry into a controlled area

BENEFITS

Medium "Tack" formulation gives a higher level of dirt capture than GuardTack 2 whilst not inhibiting free movement

Low "Tack" formulation gives a lower level of dirt capture compared to GuardTack 1 but does not affect free movement

FEATURES

30 Individually numbered LDPE peel-off sheets per contamination control mat
Available in three colours (Blue / Grey / White)

Product Code	Description	Size	Pack Qty	Case Qty
ANXX08018	Contamination Control Mats Medium Tack Non-Sterile	458mm x 1145mm (18" x 45")	30 sheets/mat	8 Mats
ANXX08026	Contamination Control Mats Medium Tack Non-Sterile	660mm x 1145mm (26" x 45")	30 sheets/mat	8 Mats
ANXX08336	Contamination Control Mats Medium Tack Non-Sterile	914mm x 914mm (36" x 36")	30 sheets/mat	8 Mats
ANXX04018	Contamination Control Mats Low Tack Non-Sterile	458mm x 1145mm (18" x 45")	30 sheets/mat	4 Mats
ANXX04236	Contamination Control Mats Low Tack Non-Sterile	660mm x 914mm (24" x 36")	30 sheets/mat	4 Mats
ANXX04026	Contamination Control Mats Low Tack Non-Sterile	660mm x 1145mm (26" x 45")	30 sheets/mat	4 Mats
ANXX04036	Contamination Control Mats Low Tack Non-Sterile	914mm x 1145mm (36" x 45")	30 sheets/mat	4 Mats
ANXX04336	Contamination Control Mats Low Tack Non-Sterile	914mm x 914mm (36" x 36")	30 sheets/mat	4 Mats

Where XX = BL for Blue, GY for Grey and WH for White

MICRONGREEN



MICRONGREEN

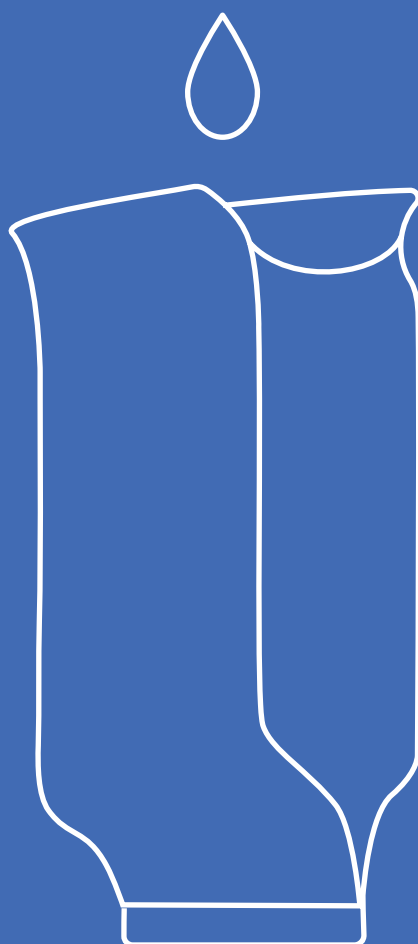
“Our aim is to be the most sustainable cleanroom textile and cleanroom consumables business on the planet.”

Micronclean is committed to contributing to a sustainable future based on the three pillars of:

- Protecting our climate
- Creating our circular economy
- Delivering a positive impact for our people and communities



MICRONCLEAN ASSEMBLY



MICRONCLEAN ASSEMBLY



The current Micronclean manufacturing cleanroom for cleanroom consumables was commissioned in 2011 and has a dedicated manufacturing area of 61m². When the facility was built this was perfect for the cleanroom consumables market we saw at that time and with various improvement to the equipment we have improved the production capacity to 1,350 boxes a week on average.

However, since we commissioned the unit, we have seen sustained growth in demand and since 2020 we have seen double digit growth year on year which means we have outgrown the original production facility even with its enhancements. As a result, in November of 2020 we committed £1.8million to build and equip a brand-new cleanroom manufacturing facility, Micronclean Assembly with a dedicated manufacturing area of 284m².

From the outset Micronclean Assembly was designed to be a paper free environment and as a result has become our second paperless manufacturing facility.

Inside the cleanroom the quadrupling of manufacturing area has allowed Micronclean to install three dedicated and distinct process lines:



Wet Line 1 is a fully automated filling and sealing line dedicated to the production of trigger sprays and tub wipes. The line has the capacity to process 20 trigger spray bottles or tubs a minute.



Wet Line 2 is a semi-automatic filling and sealing line dedicated to the production of pouch wipes and disposable mops.



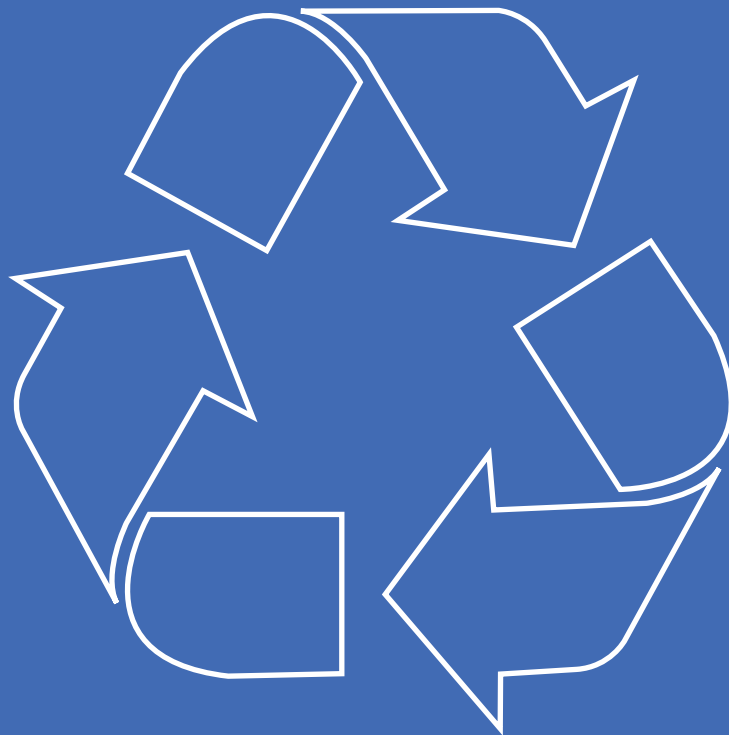
Dry Line 1 is a manual packing line for dry good with the facility to vacuum pack as required so is ideal for isolator bonnets, dry wipes and coveralls.

The installation of the three new lines has unlocked a large amount of potential which can be detailed as follows:

- A large increase in capacity.
- Improved quality control as we move away from very manual processes to either automatic or semi-automatic processing.

This all leads to increased process capability and as a result as a Micronclean Assembly is delivering greater reliability of supply and timing.

RECYCLING INFORMATION



RECYCLING INFORMATION



TRIGGER SPRAY

Page 07 | 13

Component Name	Component Material	Disposal
Trigger Spray Head with Dip Tube	Mixed Materials	Non-recyclable
500ml/950ml Bottle	HDPE	Recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable



5 LITRE RFU

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Component Name	Component Material	Disposal
Container Cap	HDPE	Recyclable
5L Container	PP	Recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable



POLYCELLULOSE POUCH WIPES

Page 09 | 16

Component Name	Component Material	Disposal
Wipe	Polycellulose	Non-recyclable
Wipe Pouch	Polyester and Polyethylene blend	Non-recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable



POLYPROPYLENE TUB WIPES

Page 15

Component Name	Component Material	Disposal
Wipe	Polypropylene	Recyclable
Tub	HDPE	Recyclable
Tub Lid	PE	Recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable



IPA POLYESTER POUCH WIPES

Page 17

Component Name	Component Material	Disposal
Wipe	Polyester	Recyclable
Wipe Pouch	Polyester and Polyethylene blend	Non-recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable



IMS SILVER PACK POLYETHYLENE/POLYPROPYLENE WIPES

Page 18

Component Name	Component Material	Disposal
Wipe	Polyethylene / Polypropylene	Non-recyclable
Wipe Pouch	OPP + PE + VMPET	Non-recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable



ISOLATOR BONNET AND TOOLS

Page 20

Component Name	Component Material	Disposal
Bonnet	Polyester	Recyclable
Handle	Stainless Steel	Recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable



DISPOSABLE MICROFIBRE MOP STERILE

Page 10 | 21 | 22

Component Name	Component Material	Disposal
Mop	Microfibre (Polyester and Polyamide)	Non-recyclable
Mop Pouch (Individually Packed Only)	Polyester and Polyethylene blend	Non-recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable



POLYCELLULOSE WIPES / ROLL WIPES

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Component Name	Component Material	Disposal
Wipe	Hydroentangled 55% Polyester, 45% Cellulose blend	Non-recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable



POLYESTER WIPES STERILE

Page 29 | 30

Component Name	Component Material	Disposal
Wipe	100% Polyester	Recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable

RECYCLING INFORMATION



POLYESTER WIPES STERILE

Page 29 | 30

Component Name	Component Material	Disposal
Wipe	100% Polyester	Recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable



CLEANROOM POLYESTER SOCKS

Page 39

Component Name	Component Material	Disposal
Socks	Mixed synthetic fibre	Non-recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable



MICRODENIER WIPES NON-STERILE

Page 31

Component Name	Component Material	Disposal
Wipe	100% continuous filament nylon/ polyester wipe	Non-recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable



DISPOSABLE FACEMASKS, BEARD SNOOD AND MOB CAP

Page 40

Component Name	Component Material	Disposal
Mobcap/Beard Snood	PP Fabric With Rubber Elastic	Non-recyclable
Facemask	Combined polymer ES (Ethylene Side By Side), Melt Blown PP (MBPP), Polyurethane, metal stripped with coating	Non-recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable



INDIVIDUALLY PACKED GOGGLE NON-STERILE

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Component Name	Component Material	Disposal
Goggle	Thermoplastic Rubber, Silicone, Polycarbonate	Non-recyclable
Autoclave Bag	French Paper With Blue laminated Film (PE and CPP blend)	Non-recyclable
Outer Bag	Nylon	Recyclable
Box	Cardboard	Recyclable



ACCESS MAT MEDIUM AND LOW TACK

Page 42

Component Name	Component Material	Disposal
Mat	LDPE coated with water-based acrylic adhesive	Non-recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable



DISPOSABLE COVERALL / DISPOSABLE LAB COAT

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Component Name	Component Material	Disposal
Coverall	White Microporous PP with PE laminate with zip and rubber elastic	Non-recyclable
Polybag	LDPE	Recyclable
Box	Cardboard	Recyclable

Recycling information relates to

- UK Law and Practices
- Clean items that are free from contamination and residues



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MCB 04/2024