



CLEANROOM PRODUCTS for the CLASSES A – D

- Wipers
- Gloves
- Sterilisation products
 - Cleaner
- Desinfection products
 - Skin cleaning
 - Skin care
 - Dosing set
- Cleaning systems
 - Cleanroom mop
- Mop with solution tank
 - Vacuum cleaner
 - Overalls
 - Coats
 - Overboots
 - Sleeve protection
 - Hoods
 - Face masks
- Autoclavable Clogs
 - Pens

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Moistened cleanroom wipers - sterile -

Article-no.: RTPROSAT911S
Description: moistened, *sterile* wipers
70% 2-propanol / 30% de-ionized water

Moistened cleanroom wipers

Article-no.: RTPROSAT911
Description: moistened wipers
70% 2-propanol / 30% de-ionized water

Packaging unit: PU: 30 wipers per bag
re-sealable bags

Properties: for cleanroom class ISO 4



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Ready-to-use, sterile disinfection spray Alcool Isopropylique (70 %) IP Sterile for disinfect of areas

- Gamma radiation
- Double packed
- Aseptic filling – filtration of product 0,2 µm
- Endotoxin concentration $\leq 0,25$ EU/ml



Microbiological efficacy

ALCOOL ISOPROPYLIQUE (70 %) IP Sterile accords to AFNOR norms: F T 72-150: bactericidal (spectrum 4) NFT72.200: Fungi. According to LARSON and MORTON (in block - 4. edition, Kapitel11) the solution is effective against: Mycobacterium tuberculosis HIV-1, HBV, Herpes- and Adenovirus

Areas of application

Disinfection of surfaces, instrumentations and apparatus of the pharmaceutical industry (cleanrooms; areas of cleanroom classes A and B).

Product data

Composition:

- Isopropanol (IPA; according to quality direction of the European dispensatory)
- Aqua purificata 30 %

Chemical/physical data:

- colourless liquid
- typical smell
- density at 20 °C: 0,862 +/-0,007
- acidity: <1 ml NaOH 0,02 N
- nonvolatile residue: <0,01 % (weight/Vol)

Article-no.:

RREIN-ISO-ST

Packaging unit:

1 carton à 12 tins with 300 ml each



Instructions for use

Only for extrinsic application. Do not swallow. Highly inflammable. Keep away from children hand. Avoid eye contact. Do not inhale Aerosol. Bin is under pressure. Keep away from direct sun light and temperatures over 50 °C. Do not demolish or combust full or empty bin. Do not use in the near of open flame or ignition source. Do not spray in open flame or glowing material. Don't smoke while working with the product. Avoid long term spraying. Only for use in well ventilated areas.

Special instructions

Use disinfectant safely. Always read the label and product information before use. Do not consume. The use of protective gloves (e.g. butyl rubber) is recommended.

Details for Swiss market:

Toxic category: free
BAG-T: 610200

Attend warnings on the label.

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IPA – ready-to-use cleaner

For cleaning of workplaces in cleanrooms. Usable in cleanroom class 100.

Filtration:	0,2 μ
Rate:	70% IPA / 30% Di-water
Article-no.:	RREIN-7700/1L
Packaging unit:	6 x 1 l / carton

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Desmanol[®] Industrial

Ready-to-use, alcoholic rub in compound
for disinfection of hands

- Skin protection
- Fast disinfect effect because of fast drying
- Distinct microbicide effect against bacteria, fungi and lipophilic viruses
 - Distinct remanence effect



Microbiological efficacy

Desmanol[®] Industrial is:

- bactericidal
- fungicide
- antiviral agent: HBV, HIV, HCV, Vaccinia- and Rota-virus

Areas of application

Disinfection of hands.

Product data

Composition

100 g solution contents: agents: 32,251 g Propane-1-ol, 20,985 g Propane-2-ol.

Chemical/physical data:

Appearance	: colourless liquid
Colour	: blue
Density	: 0,90 g/cm ³
Viscosity (20 °C)	: < 15 s flow time according to DIN 53 211
Temperature stability	: stable between +2 °C and +40 °C flocculation at -5 °C, but completely reversible from +10 °C on
Flashpoint (DIN 51 755)	: 26,5 °C

Article-no.	: RREIN-DESM
Packaging unit	: 1 x 500 ml bottle 20 x 500 ml bottles/carton



Labelling according to EC Directives

R 10: Flammable

R 41: Risk of serious damage to eyes

R 67: Vapours may cause drowsiness and dizziness

S 25: Avoid eye contact

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 39: Wear eye/face protection

Keep tight closed. Avoid direct sun, heat and frost. Storage in original bin at room temperature. Dispose bins only totally empty. Flammable solution. Keep away from open fire and ignition source.

Environment information

Desmanol® Industrial is available in bottles made from Polyethylene (HDPE), labelled. Breech is made from HDPE, labelling PE.

Use disinfectants safely. Always read the label and product information before use.

Instructions for use

Use Desmanol® Industrial undiluted. During residence time of hand disinfection the hands should be moistened.

Application range	Application recommendation
Hand disinfection	Rub in min. 3 ml Desmanol® Industrial into dry hands. Application time: 30 sec.

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Esemtan[®] Wash lotion

Hand and skin cleansing



Uses

- Universally usable – for the whole body, face and hair
- For all skin types and for the skin of babies and old people
- With sodium lactate in order to maintain natural skin moisture
- Maintains the antimicrobial effect of the skin's protective acid mantle

Microbiological effectiveness

Esemtan[®] Wash Lotion has proven antimicrobial effect against bacteria and fungi.

Product data

Composition:

Ingredients: Aqua, Sodium Laureth Sulfate, Laureth-3, Lauryl Glucoside, Glycol Distearate, Stearamide MEA, Cocamide DEA, Lactic Acid, Citric Acid, Sodium Hydroxide, Allantoin, Sodium Chloride, Fragrance, Undecylenic Acid, Lauric Acid, Phenoxyethanol, Methylidibromo Glutaroni trile, C.I. 42090, C.I. 47005

As a result of the balanced mix of the various ingredients, Esemtan[®] Wash Lotion has both antimicrobial and skin-care properties. The gentle lather and pleasant fragrance and the delicate opalescent green colour, round off the positive properties of the product.

- Allantoin, a substance with anti-irritant properties that occurs widely in the animal and plant world, protects the skin against irritation.
- Sodium lactate, a biological skin moisturiser, keeps the skin soft and smooth, and prevents it from drying out.
- Protection and care of the skin are potentiated by emollient substances such as lauric acid and fatty acid esters.
- The antimicrobial system in Esemtan[®] Wash Lotion mimics the skin's protective mechanism against bacteria and fungi, and is dermatologically safe in the concentration used: undecylenic acid and lauric acid potentiate the antimicrobial effect of the skin's protective acid mantle.

Chemical-physical data:

Appearance:	delicate opalescent green
pH value:	5.0 (neutral)
Run-out time, DIN 53 211 (20 °C):	approx. 3 min.



Article-no.: : RREIN-ESEMW
Packaging unit : 1 x 450 ml bottle
1 carton with 20 x 450 ml bottles

Instructions / Methods of use

Esemtan® Wash Lotion was developed for gentle hand and body washing, and can be used:

- For all skin types, including the skin of babies and old people
- For thorough and gentle hand washing in surgical and hygienic hand disinfection with alcoholic rub-in preparations
- For gentle body hygiene/cleansing when showering or in partial and full baths, even in cases of hypersensitivity to soap
- For mild and gentle washing of patients before surgery
- For cleansing in cases of incontinence, prolonged confinement to bed, in cases of pruritis ani and vulvae
- For the prophylaxis and support of therapy in infant dermatitis and eczema of the anal and genital areas
- For washing amputation stumps and for the support of infection prophylaxis and prevention of recurrences and secondary infections
- For deodorising in cases of increased perspiration and body odor due to illness
- For mild and gentle washing of the face and hair
- For general, occupational dirtiness

Use concentrations / contact times

- Before surgical and hygienic hand disinfection with alcoholic rub-in preparations, apply approx. 2 ml Esemtan® Wash Lotion via a wall dispenser, add water to form a lather, rinse off and dry well (repeat the process in cases of very heavy soiling)
- For washing, apply Esemtan® Wash Lotion to a moist sponge or face-cloth, rub on to the relevant parts of the body, wash and rinse off
- For whole baths, depending on requirement, add approx. 20 ml Esemtan® Wash Lotion as the water runs into the bath; for partial baths use correspondingly smaller amounts

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Esemtan® skin balsam

For daily use in care of the skin, to protect it from drying



- Based on skin-care substances
- Provides the skin with oil and moisture
- Penetrates deeply into the skin

Type of preparation

Oil-in-water emulsion for daily hand and body care

Product data

Composition:

Ingredients: Aqua, Paraffinum Liquidum, Cetearyl Alcohol, Propylene Glycol, Urea, Cetareth-25, Cetareth-6, Parfum, Phenoxyethanol, Methylparaben, Butylparaben, Ethylparaben, Propylparaben, Isobutylparaben.

The cream lotion is perfumed with perfume oils specially tested for skin compatibility.

Chemical-physical data:

Appearance: creamy white lotion
Density: 1.00 g/ml
pH value: skin neutral

Recommendation for use

Esemtan® Skin Balsam is suitable for care of the hands and for general skin and body care, especially in subjects with seborrhoeic (oily) skin types. It is important to care for the hands well, e.g. after finishing an operation-programme, in order to prevent possible skin irritation. If required, especially at cold times of the year or after washing the hands, several times daily. For caring protection between tasks, Esemtan® Hand Emulsion is recommended.

Article-no. : RREIN-ESEMH
Packaging unit : 1 x 500 ml dispenser bottle
20 x 500 ml bottles / carton

(also in 150 ml dispenser bottle available)

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Compound dispenser for 500 ml bottles



For application of hand
disinfectant, wash and care
lotions

- According to the requirements of government safety organisation (BGR 250/TRBA250)
 - Autoclavable and dishwasher cleaning possible
 - Easy assembling

How it works

- Easy and exact dosage of hand disinfectant, wash and care lotions.
- Dosage of lotions with a triple adjustable dosage pump in quantities from 0,75 ml to 1,5 ml per pass.
- Changeable stainless steel pump offers trouble-free lotion flow. No plugging, jamming or dropping.
- Body made from matt finished silver anodized aluminium. Arm made from stainless steel.
- Dispenser is replaceable from wall fixing board, for example for cleaning.
- Fast filling with original bottle.

Short arm type (long arm type upon request)

Width : 8,2 cm
Depth : 16,2 cm (with arm)
Height : 24,5 cm

Article-no. : **RREINKHK500** or **RREINKHK500S** (with dish)
Packaging unit : 1 piece

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Dosage assistances



Dosage set (holder and pump) for hand disinfectant, wash and care lotions – 500 ml bottles

Article-no. : RREIN-DOS
Packaging unit : 1 piece



Dosage set (holder and pump) for hand disinfectant, wash and care lotions (3 ml/hub)

Article-no. : RREIN-DOSP
Packaging unit : 1 piece

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Disinfectant cleaner AF

Acetous suspended liquid concentrate for disinfection and cleaning of sanitary areas. Based on citric and phosphoric acid as well as anionic and unionic tensides

- Short residence time (1 min.) at concentrated application
 - Dissolving dirt, lime and urine (acetous pH)
 - Proved compatibility on ceramic coverings (Säurefließner association)
 - DGHM listed



Application

Disinfection of surface areas and inventory in sanitary areas, for example, floors, walls, basins, toilets, showers and bathtubs. Also in areas of physical therapy. For application on tiles and acid-proof enamel.

Microbiological efficacy

Effective against fungi, bacteria and lipophilic viruses

Product data

Composition

100 g contains: 9,1 g citric acid. Labelling according to VO (EG) Nr. 648/2004: 5 – 15 % anionic tensides, < 5 % unionic tensides, perfume

Chemical/physical data:

Concentrate

Appearance : clear, green liquid
pH : appr. 0,8
Density : appr. 1,11
Viscosity : under 15 sec. (flow time according to DIN 53 211)

2 % dilution

Appearance : clear, green liquid
pH (in tap water) : appr. 2,1

Article-no. : RREIN-DESI
Packaging unit : 1 x 1 l bottle
1 carton with 10 x 1 l bottles



Contact times

Effective against exposure time	1 Min.	30 Min.	4 Std.
DGHM-listed <i>Surfaces are in hospitals and practice</i>		3% (30 ml/l)	2% (20 ml/l)
Lipophilic viruses	0,5% (5ml/l)		
<i>Short time disinfection according to DGHM-directive</i> For example: toilets, bathtubs	Conc.		

Labelling according to EC Directives

(only for the concentrate):

Xi : irritant

R36/38 : irritant to eyes and skin

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Special instructions

Use disinfectants safely. Always read the label and product information before use. Do not consume. The wearing of protective gloves (e.g. made of butyl rubber) is recommended.

Instructions for use

Disinfectant cleaner AF can be used diluted or undiluted. For insistent contamination it is recommended to use the cleaner undiluted. Especially for cleaning and disinfection of toilets and bathtubs it is recommended to use undiluted cleaner and recommended contact time. Before using bathtubs and basins have to flush well after cleaning. For bigger areas like floors, ceilings etc. diluted solution is recommended.

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EasySat™

Cleanroom floor mop with solution tank

for cleanroom-class 100

EasySat™ bucketless floor mop is an effective and quick solution to your cleaning challenges. Designed for the cleanroom, this innovative new mop is easy to use – the built-in solution tank completely eliminates the need for a bucket and wringer !

Features:

- Utilizes lasercut sealed-edge VertiKlean® mop head material (patent-pending)
- Designed specifically for cleanroom use
- Fully autoclavable
- Simple to use – no complex moving parts
- Solution tank holds up to 1,5 liters
- One full tank cleans up to 465 square meters
- Closed solution tank minimizes exposure to chemicals
- Large opening makes tank easy to fill
- Lightweight – mop weight 3,2kg with full tank !
- Translucent tank keeps solution level visible
- Trigger mechanism flow control releases cleaning solution on demand or continuously
- Available with your choice of two mop heads:
 - Textured surface for more abrasive action
 - Flat surface for standard floor cleaning
- Mop head is available Validated Sterile per AAMI/ISO 11137 Method 1 guidelines. Gamma irradiated to 10⁻⁶ sterility assurance level, one of the strictest guidelines established by AAMI/ISO
- Angled mop head cleans hard-to-reach areas and can be attached and removed within seconds
- 16 jets ensure that cleaning solution is evenly dispensed across the entire mop head

Technical Specifications:

Height:	146 cm
Frame:	51 cm x 10,5 cm
Mop head:	56 cm
Weight:	1,7 kg (empty) 3,2 kg (with full tank)
Tank size:	1,5 liter

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Equipment

EasySat™ Floor mop with solution tank

Article-no.:	Article:
RRMOPBL	EasySat™ mop with solution tank
RRMOPBLVK	Disposable mop head for standard floor cleaning 1 pack / 4 pcs. 1 carton / 32 pcs.
RRMOPBLTVK	Disposable mop head with textured surface 1 pack / 4 pcs. 1 carton / 32 pcs.
RRMOPBLTVKST	Disposable mop head for standard floor cleaning - sterile - 1 pack / 4 pcs. packed seperately 1 carton / 28 pcs. packed seperately
RRMOPBLTVKST	Disposable mop head with textured surface - sterile - 1 pack / 4 pcs. packed separately 1 carton / 28 pcs. packed separately

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Cleaning systems for cleanrooms

System trolleys for cleanroom cleaning:



Art.-No.: RRMOPWACR1

L: 45cm W: 50cm H: 98cm

Single bucket trolley
With flat wringer Ringo CR



Art.-No.: RRMOPWACR2

L: 85cm W: 50cm H: 98cm
folded:

L: 64cm W: 50cm H: 68cm

Double bucket trolley
with flat wringer Ringo CR - foldable



Art.-No.: RRMOPWACR3

L: 85cm W: 50cm H: 98cm

Double bucket trolley with flat wringer Ringo CR
and one bucket each for new/used mop heads

- For areas with highest GMP conformity requirements

Mop frame



Art.-No.: RRMOPHA40E (stainless steel)
40cm, pole according to „GMP“ requirements

Art.-No.: RRMOPHA40A (stainless steel)
40cm, aluminium pole

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Special mop for cleanroom cleaning King CR



Qualification:

- made of special yarn, especially suitable for cleanrooms
- maximum efficiency due to incorporated microfibres
- safe disinfecting due to regular dampness
- washable and reusable
- able to autoclave
- harmonized to flat wringer Ringo CR

Material specifications:

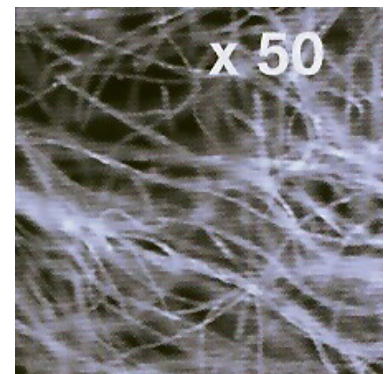
System trolley and flat wringer:
Stainless steel T 304 and T 430

Special mop KING CR:

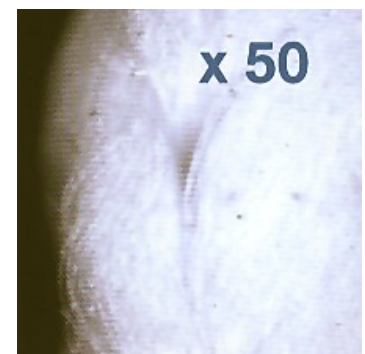
- material: 100% Polyester microfibre yarn (0,5DE)
- weight: 150g
- thermal stability: melting point 250-260°C
- absorption capacity: 3ml/g
- fibre resistance (breaking strength): 14.0kg
- elasticity: 57,5%
- material compatibility tested with the following products:
Antifect FD10, Bacteranios, Perdes Steril,
Perform, Surfanios, Terralin, Buraton 10F

Art.-No.: RRMOPCM01

Packaging unit: 1 piece



Standard mop



King CR

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Cleanroom vacuum cleaner IVT 1000 CR H

- Equipped with ULPA U15 exhaust filtration. Meets ISO std. (4)5 in cleanroom certification
- Equipped with a HEPA filtered throw away dust container meets "H" class filtration (not certified H)
- All stainless construction
- Can be autoclaved at 121°C to avoid contamination
- Modular construction for easy cleaning/service
- Extremely quiet
- Upstream HEPA H13 filter



Art.-No.: RSTIVT1000CR

Technical Specifications

IP protection class	IP40
Dust class	H
Rated power (W)	1200
Voltage (V)	220 – 240
Frequency (Hz)	50 – 60
Grounded	Yes
Sound pressure level (db(A)ISO 3744	61
Suction power end of tube (W)	236
Airflow without hose (l/sec)	35
Vacuum (kPa)	20
Container capacity (l)	12,5
Dust bag capacity (l)	8
Main filter type	HEPA H13
Main filter area (cm ²)	2573
Inlet (mm)	32
Exhaust filter ULPA U15 (cm ²)	2573
Length x Width - Height (cm)	30 x 30 x 73
Weight (kg)	9,2

Additional available accessory kit (Art.-no.: RST80556700):

Accessory kit autoclavable

- autoclavable nozzle
- stainless tube
- silicone hose



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Cleanroom flat mop for cleaning of floors and other large surfaces

Flat mop head frame (Art.-No.: RRMOPBCRHG)

- Clean, light and durable
- High quality anodized aluminium
- autoclavable
- unique stainless steel spring mechanism for wiper attachment
- Size: 58 x 9 cm

Flat mop handle

(Art.-No.: RRMOPBCRG)

- Telescopic handle extends from 85 – 160 cm
- Lightweight and strong
- Autoclavable

Flat mop wiper (Art.-No.: RTDURX670MOP)

- Durx® 670 standard mop wiper
- Smooth, highly sorbent and durable
- Autoclavable
- Sterile version available
- 55% cellulose / 45% polyester
- No secondary binders
- Size: 58 x 23 cm



Basis weight (g/m ²)	69,6
Caliper (µm)	252
Fibers (/cm ²)	140
Particles (0,5µm) (biaxial shake) (x10 ³ /cm ²)	22
Absorbency (cc/m ²)	312
Specific absorbency (cc/g)	4,5
Time to sorption (sec.)	3

Extractables:	
H ₂ O (%)	0,085
2-Propanol (%)	0,025
Ions(ppm):	
Na ⁺	16
K ⁺	1,1
Ca ⁺⁺	2,2
Mg ⁺⁺	1,4

Also usable:

Cleanroom mop wiper – SONTARA MP300 – ISO 7 usable

Art.-no.: RTSMPMOP300

Property		Value	Unit	Test method
Composition	Polyester	48,5	%	
	Wood pulp	51,5	%	
Basis weight		51	g/m ²	ERT40.3-90
Thickness		0,34	Mm	ERT 30.5-99
Absorbency		538	%	ERT 10.3-99
Extrinsic absorption capacity		281	ml/m ²	IST 10.2-98
Grab tensile breaking strength (dry)	MD	126	N	ASTM D5034
	XD	58	N	
Strip tensile breaking strength (dry)	MD	151	N	ERT20.2-89
	XD	40	N	

Article-no.:	Packaging unit:	Size:
RRMOPBCRH	1 Set (frame and handle)	
RTSMPMOP300	500 wipers	30 x 59 cm
RTDURX670MOP	100 wipers	58 x 23 cm

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BIO-D CLEANROOM COVERALL WITH HOOD

Available as sterile or non-sterile garment



the hood has been designed to be used with or without a facemask

the hood, cuffs and ankles have an elasticated finish which provides a protective seal

the zip is fitted with a double layer cover for extra protection

the elasticated back ensures a close and comfortable fit

A very comfortable coverall giving full flexibility to the wearer with maximum protection.

Size:	Article-no.: non-sterile	Article-no.: sterile
XS	EOVBIOK20XS	ESTOVK20XS
S	EOVBIOK20S	ESTOVK20S
M	EOVBIOK20M	ESTOVK20M
L	EOVBIOK20L	ESTOVK20L
XL	EOVBIOK20XL	ESTOVK20XL
XXL	EOVBIOK20XXL	ESTOVK20XXL

Colour: white
Packaging unit: 20 pieces

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BIO-D CLEANROOM COVERALL WITHOUT HOOD

Available as sterile or non-sterile garment



the zip is fitted with a double layer cover for extra protection

the elasticated back ensures a close and comfortable fit

cuffs and ankles have an elasticated closure which provides a protective seal

A coverall designed for use in areas where a hood is not required.

Size:	Article-no.: non-sterile	Article-no.: sterile
XS	EOVBIO20XS	ESTOV20XS
S	EOVBIO20S	ESTOV20S
M	EOVBIO20M	ESTOV20M
L	EOVBIO20L	ESTOV20L
XL	EOVBIO20XL	ESTOV20XL
XXL	EOVBIO20XXL	ESTOV20XXL

Colour: white
Packaging unit: 20 pieces

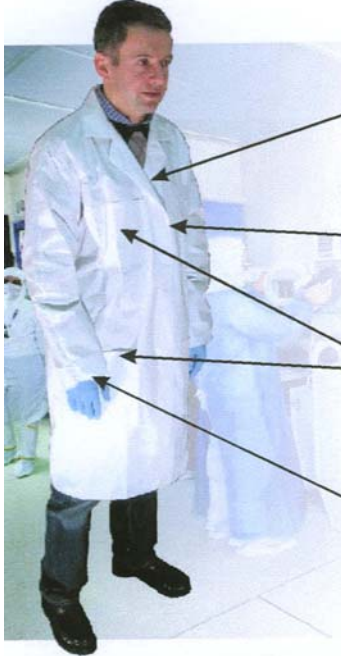
hans j. michael gmbh

Gewerbegebiet Hart 11, D-71554 Weissach i.T. , Phone.: 0049-7191-9105-0, Fax: 0049-7191-9105-19
e-mail: hjm.bk@t-online.de, website: <http://www.hjm-reinraum.de>



BIO-D CLEANROOM LAB COAT

Available as sterile or non-sterile garment



extremely strong fastening studs ensure the garment does not open accidentally

very strong seams ensure the garment retains its shape and fit

two hip pockets and chest pocket for convenient storage

open cuffs and rear vent for comfort during use

This lightweight unisex coat has a very smart appearance and is designed for maximum comfort.

Size:	Article-no.: non-sterile	Article-no.: sterile
S	EKBIO30S	ESTKBIO30S
M	EKBIO30M	ESTKBIO30M
L	EKBIO30L	ESTKBIO30L
XL	EKBIO30XL	ESTKBIO30XL
XXL	EKBIO30XXL	ESTKBIO30XXL

Colour: white
Packaging unit: 30 pieces

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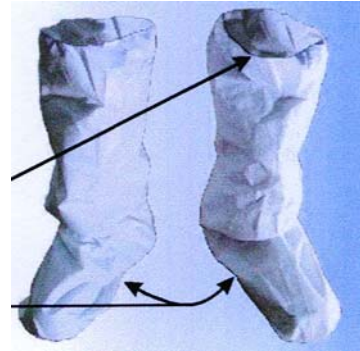
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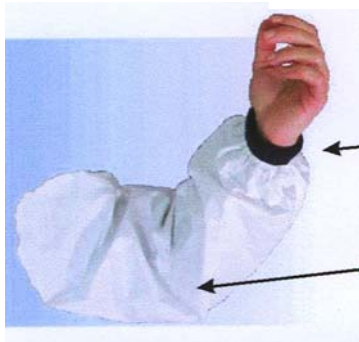
BIO-D CLEANROOM GARMENTS

Overboots, sleeve covers, hood

elasticated top for a comfortable yet protective seal



non-slip sole to prevent accidental falls



elasticated openings allow easy donning and a comfortable yet protective seal

provides full coverage and protection from wrist to upper arm

shaped to provide a good fit on the head thus providing maximum comfort

elasticated face opening to provide comfortable yet protective seal



	PU:	Article-no.: not sterile	Article-no.: sterile
Overboots	150 pcs.	EUSTBIO150	ESTÜST150
Sleeve covers	180 pcs.	EÄBIO180	ESTÄBIO180
Hood	180 pcs.	EHBIO180	ESTHBIO180

Colour: white

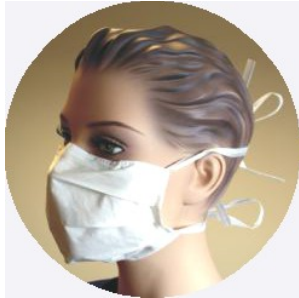
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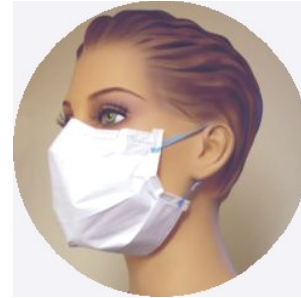
BioClean 100 face masks - sterile -



BioClean 100™ cleanroom face masks are designed to meet the demands of the most exacting operating environments. Manufactured and packed in an ISO Class 4 cleanroom. They are made in tie-on and earloop variants to suit all user requirements.



to tie-on



with earloop

BioClean 100™ cleanroom face masks are 210mm in width to provide superior protection, and are clearly marked to differentiate the inner and outer surfaces. Rigorously tested, they provide industry leading levels of particle and bacterial filtration efficiency, combined with excellent breathability. The extra length conformable noseband ensures wearer comfort, and all variants are 100% latex-free to ensure no latex allergy problems.

BioClean 100™ cleanroom face masks are manufactured from high performance material to ensure excellent seam strength.

Properties

Features:	3 ply, ultrasonic sealing
Construction:	Hydrophobic outer layer, meltblown middle layer, hydrophilic inner layer
Dimensions:	210mm length, 90mm width
Colour:	White
Shedding analysis:	Average particle count = 19/minute (particle size: 0.2 – 0.5µm)
Particle filtration efficiency (PFE):	>98% (non-sterile) >96% (sterile)
Bacterial filtration efficiency (BFE):	>97% (non-sterile) >94% (sterile)
Pressure drop:	2,7 (non-sterile) 3,2 (sterile)
Sterilization method:	Gamma irradiation
Quality systems:	Manufactured in a facility holding the following registrations: ISO 9001:2000 & ISO 13485:2003
Sampling & inspection:	In accordance with ISO 2859
Compatibility:	ISO class 4 cleanrooms
Storage instructions:	Store in a cool dry place away from direct sunlight and heat (5°C – 35°C)
Article-no.:	ESTMTA-210-1 (to tie-on) ESTMEA-210-1 (earloop)
Packaging unit:	50 pcs or carton with 10 x 50 pcs

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Nitrile cleanroom gloves - sterile -

This gloves have been specifically developed to provide extra protection above the wrist.

- Powder-free
- Superior chemical resistance
- For use in ISO class 5 cleanrooms
 - Excellent user comfort
- Good grip, even in wet conditions

Properties:

Surface:	textured
Colour:	white
Length:	400 mm
Material:	nitrile
Protein Level:	zero - nitrile contains no natural latex proteins
Quality systems:	ISO 9001:2000
Production:	according to standard EN455 (part 1&2)
Sampling and inspection:	ISO 2859
AQL:	1,5
Storage:	store in a cool dry place away from direct sunlight and heat (5°C – 35°C)
Packaging unit:	200 pairs – packed by pair
Sizes:	7,5 / 8 / 9 / 10
Article-no.:	ESTHSNITR(size)

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Latex cleanroom glove - sterile -

Because of extra long shaft – protection also above wrist (length: 400mm)

Material:	natural rubber latex
Length:	300 mm
Surface:	textured
Properties:	powder-free, beaded cuff, hand specific
Colour:	white
Sterilization:	Gamma irradiation
Protein level:	less than 50µg/gram
Physical properties:	European Medical Gloves Standard EN455 (part 1,2 & 3)
Extractables:	extended leaching in pure de-ionised water ensures extremely low levels of chlorides and extractable metals
Pariculates:	processed in a cleanroom environment to ensure compatibility with ISO class 5 operating conditions
Quality systems:	ISO 9001:2000 registrated
Sampling and inspection:	in accordance with ISO 2859
AQL:	1.5
Storage:	store in a cool (5°C – 35°C), dry place away from direct sunlight and fluorescent light
Sizes:	6 / 6.5 / 7 / 7.5 / 8 / 8.5 / 9 / 10
Packaging unit:	200 pairs – packed by pairs
Article-no.:	ESTHSAL(<i>size</i>)

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Autoclavable clogs



Properties:	autoclavable up to 140°C antistatic sizes 34/35 – 48/49
Colours:	white, blue, green
Packaging unit:	1 pair
Article-no.:	RSN325500000 (white) RSN325520000 (blue) RSN325510000 (green)

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Cleanroom pen - sterile -



Sterilisation by Gamma radiation

Available colours:

- black
- blue
- red

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Terms of sale, delivery and payment

- as of January 2007 -

Binding force

This terms of sale shall apply to the total business dealings between the buyer and us. In addition, only special conditions that have been confirmed by us in writing shall apply in the respective orders. Any divergences from this must be specifically confirmed by us in writing.

Prices

All prices are in Euro ex Weissach i.T. excluding packaging and without VAT.

Payment

If no other terms of payment have been agreed, payment must be made within 10 days after the invoice date with a 2% discount or within 30 days net cash.

Delivery

Forwarding of the goods shall take place at the buyer's expense and at its own risk. Unless the buyer gives specific instructions, we are entitled to elect which mode of transport to use. Part deliveries are permitted.

Reservation of title

We reserve the right to retain ownership of all goods we have delivered until all our invoices have been paid full.

Guarantee

Should the goods we deliver have a material or processing defect, you have to make a written complaint to us about this defect within 4 days after the article has been delivered to the buyer.

General provisions

- a) Place of fulfilment for delivery and payments as well as place of jurisdiction is D-1554 Weissach i.Tal
- b) Should individual provisions in this contract be ineffective, this shall not affect the effectiveness of the other provisions.

hans j. michael gmbh

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e-mail: hjm.bk@t-online.de, Internet: <http://www.hjm-reinraum.de>

VAT-Identification no.: DE 144 703 169, Register number Stuttgart: HRB 271073
Director: Gudrun Gaiser



IMPRINT

**HANS J. MICHAEL GmbH
Gewerbegebiet Hart 11
D-71554 Weissach im Tal**

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Website: <http://www.hjm-reinraum.de>

VAT-Identification no.: DE 144 703 169
Register number Stuttgart: HRB 271073

Director: Gudrun Gaiser
Shareholder: Gudrun Gaiser / Roland Gaiser

OFFER
Cleanroom products for cleanroom classes A - D



Wipers and cleaners for the cleanroom classes A and B

Art.no.:	Description:	Packaging unit (PU):
RTPROSAT911S	Cleanroom wiper PROSAT 911 -sterile- Usable from ISO 4 = cleanroom class 10 Material: 70% Isopropanol, 30% di-water PU: 30 wipers, resealable bags	1 carton = 48 bags
RREIN-ISO-ST	IP -sterile- aerosol can ready to use Alcool Isopropylique -sterile- Gamma radiation, double packed Composition: 70% IPA, 30% di-water Filtration 0,2 µ PU: carton with 12 aerosoles á 300 ml netto	1 carton with 12 x 300ml cans

Wipers and cleaners for the cleanroom classes C and D

RREIN7700/1L	IPA - ready to use cleaner For cleaning of cleanroom workplaces Filtration 0,2µ, usable in cleanroom class 100 Ratio: 70% IPA/30% di-water	carton: 6 x 1 liter
RTPROSAT911	Cleaning wipers PROSAT 911 Material: 70% Isopropanol, 30% di-water PU: 30 wipers in a resealable bag For cleanroom class 10	1 PU = 30 wipers carton: 50 PU's

There are a lot of microfibre, polyester, non-woven and polyurethane wipers available.
Please ask for samples !

Cleaning / Disinfection / Care

RREIN-DESM	Disinfection of hand, with alcohol bactericidal, fungicide, antiviral agent	1 x 500 ml 20 x 500 ml
RREIN-ESEMW	Special skin kindness washing lotion With allantoin	1 x 500 ml 20 x 500 ml
RREIN-ESEMH	Skin balm for general skin care Oil in water emulsion	1 x 500 ml 20 x 500 ml

Compound dispenser for disinfection products

RREINKHK500	Compound dispenser for 500ml bottles Stainless steel removable pump, anodized aluminium body, stainless steel hand gear	1 pc
RREINKHK500S	Same as above but with drip pan	
RREIN-DOS	Dosing set for 500ml bottles	1 pc
RREIN-DOSP	Dosing set for 500ml bottles	1 pc

Disinfection of sanitary area

RREIN-DESI	Cleaning and disinfectant All purposes powerful cleaning and disinfectant Active against a broad spectrum of bacteria, fungi and viruses with the added advantage of excellent material compatibility	carton: 10 x 1 liter
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OFFER
Cleanroom products for cleanroom classes A - D



Cleaning equipment - disposable -
EasySat with solution tank

Art.no.:	Description:	Packaging unit (PU):
RRMOPBL	EasySat – completely autoclavable	1 pc
RRMOPBLVK	Mop head flat - <i>non sterile</i> -	PU: 4 pcs. Carton: 32 pcs.
RRMOPTBLVK	Mop head rough - <i>non sterile</i> -	PU: 4 pcs. Carton: 32 pcs.
RRMOPBLVKST	Mop head flat - <i>sterile</i> -	PU: 4 pcs. Carton: 28 pcs.
RRMOPBLTVKST	Mop head rough - <i>sterile</i> -	PU: 4 pcs. Carton: 28 pcs.

Cleaning equipment - reusable -

RRMOPWACR1	Stainless steel single bucket trolley With flat wringer. Bucket: 25 l L: 45 cm, B: 50 cm, H: 98 cm,	1 pc
RRMOPWACR2	Stainless steel double bucket trolley With flat wringer. 2 buckets with 25 l each L: 85 cm, B: 50 cm, H: 98 cm	1 pc
RRMOPWACR3	Stainless steel double bucket trolley With flat wringer and one bucket each for new / used mop heads L: 85 cm, B: 50 cm, H: 98 cm	1 pc
RRMOPHA40E	Stainless steel mop frame 40cm, with handle, GMP-conform	1 pc
RRMOPHA40A	Aluminium mop frame 40cm, anodized aluminium handle	1 pc
RRMOPCM01	Special mop for cleanroom cleaning Made of special yarn, especially suitable for cleanrooms. Washable, autoclavable. 1 piece sufficient for appr. 10-20m ²	1 pc
RRMOPCM01ST	Special mop for cleanroom cleaning - <i>sterile</i> - Vapor sterilized, double packed	1 pc

Dry cleaning

RSTIVT1000CR	Vacuum cleaner, autoclavable Usable in cleanroom class ISO 5/4. Material body: AISI 316 (V4A). Available in dust class M and H Details upon request.	1 pc
RRMOPBCRHG	Cleanroom mop with handle and mop head For cleaning of floors and ceilings	1 pc
RTDURX670MOP	Cleanroom wiper Durx 670 for RRMOPBCRHG - autoclavable -	PU: 100 wipers
RTSMPMOP300	Sontara mop wiper Material: polyester/cellulose size: 300 x 590 mm	PU: 500 wipers

OFFER
Cleanroom products for cleanroom classes A - D



Garments - sterile - usable for ISO 4

Bio-D garments have been carefully designed and researched to provide the wearer with both superior comfort and maximum protection.

The garments are manufactured from a revolutionary new Clean-Tough™ fabric which is lightweight, hard-wearing and compatible for use in ISO Class 4 cleanrooms.

All Bio-D products are individually packed in a sealed bag. The special print encapsulation process ensures bags can be wiped down with cleaning or sterilizing fluids without fear of cross contamination.

Art.-no.:	Description:	Packaging unit (PU)
ESTOVK20 Gr. XS-XXL	BIO-D cleanroom overall with hood Hood wearing with or without facemask. The hood, cuffs and ankles have an elasticated finish which provides a protective seal. Elasticated back ensures a close and comfortable fit.	20 pcs.
ESTOV20 Gr. XS-XXL	BIO-D cleanroom overall without hood Elasticated cuffs and ankles. Zip fastener at the front with protective seal. Elasticated back ensures a close and comfortable fit.	20 pcs.
ESTKBIO30 Gr. S-XXL	BIO-D cleanroom coat Very strong fastening studs ensure the garment does not open accidentally. Very strong seams ensure the garment retains its shape and fit. Two hip pockets and chest pocket for convenient storage. Open cuffs and rear vent.	30 pcs.
ESTÜSTBIO150	BIO-D cleanroom overboots Elasticated top for a comfortable yet protective seal. Non-slip sole to prevent accident falls.	150 pcs.
ESTABIO180	BIO-D sleeve covers Elastic openings allow easy donnings and a comfortable yet protective seal.	180 pcs.
ESTHBIO180	BIO-D hood Shaped to provide a good fit on the head thus providing maximum comfort. Elasticated face opening to provide comfortable yet protective seal.	180 pcs.
ESTMTA-210-1	Sterile face mask to tie 210 mm	50 pcs. carton with 10 x 50 pcs.
ESTMEA-210-1	Sterile face mask with ear loops 210 mm	50 pcs. carton with 12 x 50 pcs.

Gloves - sterile -

ESTHSNITR (Größe)	Nitrile cleanroom gloves - sterile - 400mm, single packed, ISO 5 Sizes: 7,5 / 8 / 9 / 10	carton with 200 pairs
ESTHSAL (Größe)	Latex-Reinraum-Handschuhe - STERIL 300 mm, RR-Klasse 100	carton with 200 pairs (20 x 10 pairs)

OFFER
Cleanroom products for cleanroom classes A - D



Shoes - sterile - usable for ISO 4

	Autoclavable clogs - CLEAN CLOG Autoclavable up to 140°C, antistatic. Available sizes: 34/35 up to 48/49	
RSN3.2550.00.00	Colour: white	1 pair
RSN3.2552.00.00	Colour: blue	1 pair
RSN3.2551.00.00	Colour: green	1 pair

Also available:

PU-CLOGS, washable and disinfectable - please ask for our catalogue !

Cleanroom pen - sterile -

RSTIFTSCHWARZ	Cleanroom pen, sterile	10 pcs.
RSTIFTBLAU	Cleanroom pen, sterile	10 pcs.
RSTIFTROT	Cleanroom pen, sterile	10 pcs.

Delivery: EXW Weissach i. Tal, plus postal rate and VAT
Delivery time: ex stock - subject to prior sale
Payment: within 10 days ./. 2%, 30 days net

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