

Hydroflex

PurMop[®] **BLACK**
IS THE
NEW
CLEAN

Now available:
**ISOLATOR
CLEANING
TOOL**



PurMop BLACK[®] PERFORMANCE LINE
PRODUCT BROCHURE

CONTENTS

Carbon Fiber Mop Systems

PurMop BLACK® Performance Line	4
Features	6
PurMop BLACK® C1 & C2	9



The Mops

Dry Mops

BLACK48 – the new mop design	10
PurMop BLACK® D1	12
PurMop BLACK® D3	13
PurMop BLACK® D3-R/SR (recycled)	15

Presaturated Mops

Ready-2-Use (R2U) or Do-It-Yourself (DIY)	16
PurMop BLACK® P1-S (presaturated)	18
PurMop BLACK® F1-S (fillpack)	19



Cleanroom Trolleys

PurMop BLACK® ERGO-B/SB	20
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++ NEW ++

Isolator Cleaning Tool

Features	22
PurMop BLACK® C4	25

The Mops

PurMop BLACK® ID9-S (dry)	26
PurMop BLACK® IF9-S (Fillpack)	27



PurMop BLACK® Performance Line: The Ultimate Benefits for Users

Extremely light weight, integrated corner cleaning function, maximized area performance, excellent ergonomics and unparalleled ease of handling are key properties that help to make cleanroom cleaning easier for users. With PurMop BLACK®, we clearly focus on the user and completely redefine cleanroom cleaning. The product line offers a multitude of new features that will provide you with user comfort like never before. It also takes cleanroom suitability to a whole new level thanks to its specially developed high-tech carbon fiber (CFRP) material, which offers unique technical properties. Dive into a new world of cleanroom cleaning with the PurMop BLACK® Performance Line and be inspired!

**Mop discarding
with the push of a
button**

**Only 650 g with
a length of 212 cm**

**Next level
overhead cleaning (C1)**

**Integrated Wings for
perfect corner cleaning**

**Maximum surface coverage
up to 40 m² per mop**



Product video
YouTube

THE CARBON FIBER MOP SYSTEMS

MAXIMUM USER ERGONOMICS AND PERFORMANCE

Black, strong and stylish – our new cleaning systems are a true highlight, and not only due to their unique design. Only when holding the carbon fiber mop systems in your hands, can you realize all of the benefits they have to offer: an extremely light-weight yet ultra-stable construction with one-of-a-kind functions allowing users a level of handling that is easier than ever before. These revolutionary mop systems offer ergonomics and performance at the highest level and set a new benchmark regarding sustainability.

See the
system in use
YouTube



Why Carbon Fiber?

Finding a material which is ultra lightweight, durable, and resistant to both chemicals and steam sterilization was the main task for the development of these systems. The Carbon Fiber Reinforced Plastic material (CFRP) used to develop these new mop systems ticks all of those boxes. By doing so, it combines the best benefits of commonly used plastic and stainless steel materials and sets a new milestone in sustainability.



The Featherweight

When it comes to cleaning walls and ceilings, weight is of utmost importance. By combining ultra-light material with variable length adjustment at the push of a button and an integrated frame centering function for effortless overhead cleaning, the carbon fiber mop systems are the ultimate solution for work relief and user ergonomics.

New Design for Maximum Performance

Both the frame and the mop feature a completely new design. Thanks to a new size and unique pocket format, the mop not only guarantees much higher surface coverage but also ensures maximum hold during the wiping process – for reliable performance.





Mop Discarding With the Push of a Button

Looking for a contamination-free mop system which allows you to remove the mop in one second? The solution is the PurMop BLACK® C1 and C2! Simply discard the used mop wherever you like – just push the colored button on the handle to open the frame. Our new generation mop systems enable effortless, ergonomic and intuitive mop handling in any situation. Cleanroom cleaning has never been so safe and yet so simple.

Intelligent Frame Centering

A unique, permanently active mechanism prevents the frame from folding or swiveling uncontrollably during overhead cleaning and guarantees maximum precision. Thanks to the centering function, there is no need to manually adjust or lock the frame between floor and wall / ceiling cleaning processes. PurMop BLACK® carbon fiber mop systems are a one-fits-all solution for almost any cleaning task in any cleanroom environment.



Two Length Adjustment Options

The length of the telescopic carbon fiber handle can be adjusted in two ways, making the system extremely versatile. Simply push the button at the top of the handle to adjust the length as required. Alternatively, the length can also be adjusted by pushing the button in the middle of the handle and pulling out the lower part, for instance when cleaning overhead.

PurMop BLACK® C1/C2

Carbon Fiber Mop Systems
Telescopic Handle & Frame

Lighter, more efficient and more stable

- Telescopic handle & frame made of carbon fiber (CFRP) and high-performance plastic (PEI)
- Extremely lightweight for fatigue-free work
- Handle length adjustment with the push of a button
- Touchless mop discarding with the push of a button
- Integrated frame centering for overhead cleaning
- Highly chemical resistant and autoclavable

Only
650 g
(C1)

C1

CARBON FIBER MOP SYSTEM | HANDLE & FRAME

- Areas of application: ceiling / wall / floor
- Compatible with: PurMop BLACK® 2.0 ERGO-B/SB (cleanroom trolley system)
- Color coding: orange for sterile areas, green for non-sterile areas
- Length adjustment between 145 and 212 cm

Item no. (orange) 2131059

Item no. (green) 2131055

ISO 5 GMP A/B

C2

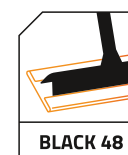
CARBON FIBER MOP SYSTEM | HANDLE & FRAME

- Areas of application: especially high cleanrooms (ceiling / wall)
- Compatible with: PurMop BLACK® 2.0 ERGO-B/SB (cleanroom trolley system)
- Color coding: orange for sterile areas, green for non-sterile areas
- Length adjustment between 212 and 297 cm

Item no. (orange) 2131066

Item no. (green) 2131065

ISO 5 GMP A/B



MORE IS MORE

BLACK48 – THE NEW MOP DESIGN

A new size, proven materials and all-new features – this intelligent combination of properties enables our latest generation of mops to achieve even better area coverage and cleaning properties. The mops from the PurMop BLACK® Performance Line aim at optimizing efficiency and making cleanroom cleaning easier for the user. Some of the clever features include a new pocket design, Wings Technology for improved corner cleaning and integrated color coding (sterile / non-sterile versions).



Wings Technology

Our new “Wings Technology” includes the integration of so-called “wings” into the mop. These material flaps are flexible ends on both sides of the mop, which adjust to fit into corners and coving, thus allowing for ergonomic and easy cleaning of hard-to-reach areas. The “wings” also protect any equipment from scratches or damage due to the material overhang.



Area Performance

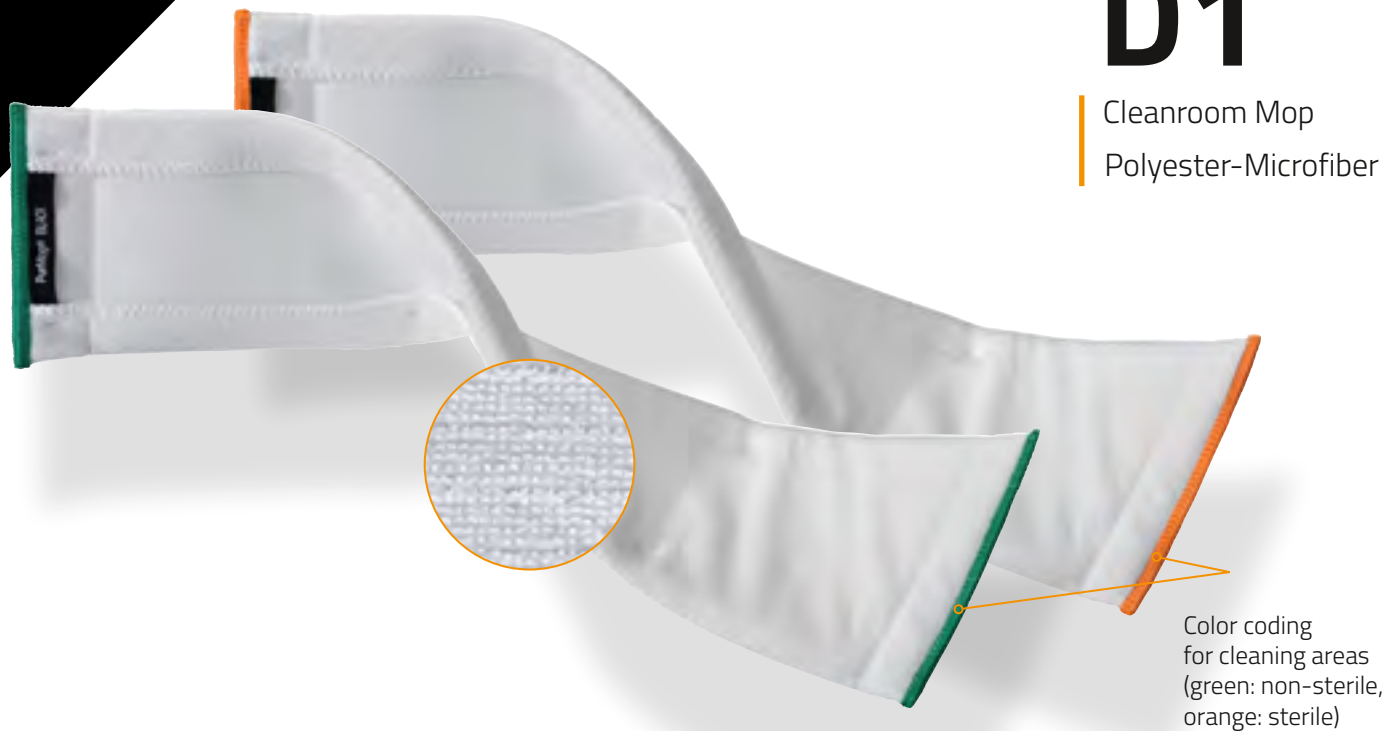
With our newly developed microfiber materials, we halve the number of times you need to replace your mop. A clever combination of improved craftsmanship, new materials and revised mop design which adds eight centimeters to the mop size, is clearly reflected in the excellent surface coverage. Our PurMop BLACK® mops achieve up to 100 % more area performance, thus saving up to 50 % of mops. This in turn leads to a significant reduction in time and hugely increases sustainability.



Cleaning Performance

We have optimized the tried-and-tested properties of our mops. By further improving our combination of materials, we have enabled our mops to remove as much as 90 % of contamination without using chemicals. Furthermore, a new microfiber cleaning pile facilitates the reliable pick-up of virtually all contamination. “Enhanced performance” is the guiding principle behind this range of high-tech mops.





PurMop BLACK®

D1

Cleanroom Mop
Polyester-Microfiber

The all-rounder for the ceiling / wall / floor

- Up to 30 m² per mop
- High-performance material made of microfiber and polyester
- Suitable for picking up the finest particles
- Extremely fine fluid distribution, ideal for smooth surfaces like glass
- Also available as R2U and Fillpack

D1 CLEANROOM MOP

- Areas of application: ceiling / wall / floor
- Compatible with: PurMop BLACK® 2.0 ERGO-B/SB (cleanroom trolley system)
- Color coding: green for non-sterile areas
- Size: 48 x 12 cm
- Packing: 2 mops / bag, 5 bags / pack, 10 packs / carton [100 mops]

Item no. 2112023

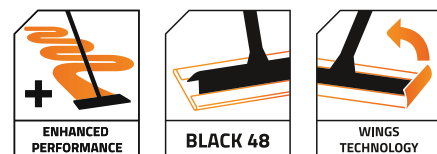
ISO 5 GMP C/D

D1-S CLEANROOM MOP [STERILE]

- Areas of application: ceiling / wall / floor
- Compatible with: PurMop BLACK® 2.0 ERGO-B/SB (cleanroom trolley system)
- Color coding: orange for sterile areas
- Size: 48 x 12 cm
- Packing: 2 mops / bag, 5 bags / pack, 10 packs / carton [100 mops]

Item no. 2112024

ISO 5 GMP A/B



PurMop BLACK®

D3

Cleanroom Mop
Polyester-Microfiber

Ideal for large floor areas

- Up to 40 m² per mopp
- Maximum pick-up capacity for all kinds of contamination
- High liquid absorption thanks to a high-performance absorption ability
- Suitable for all cleanroom floor types
- New: medium-length loops for optimal disinfection performance

D3 CLEANROOM MOP

- Areas of application: ceiling / wall / floor
- Compatible with: PurMop BLACK® 2.0 ERGO-B/SB (cleanroom trolley system)
- Color coding: green for non-sterile areas
- Size: 48 x 12 cm
- Packing: 2 mops / bag, 5 bags / pack, 10 packs / carton [100 mops]

Item no. 2112054

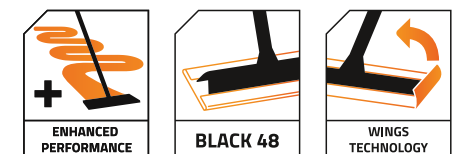
ISO 5 GMP C/D

D3-S CLEANROOM MOP [STERILE]

- Areas of application: ceiling / wall / floor
- Compatible with: PurMop BLACK® 2.0 ERGO-B/SB (cleanroom trolley system)
- Color coding: orange for sterile areas
- Size: 48 x 12 cm
- Packing: 2 mops / bag, 5 bags / pack, 10 packs / carton [100 mops]

Item no. 2112055

ISO 5 GMP A/B

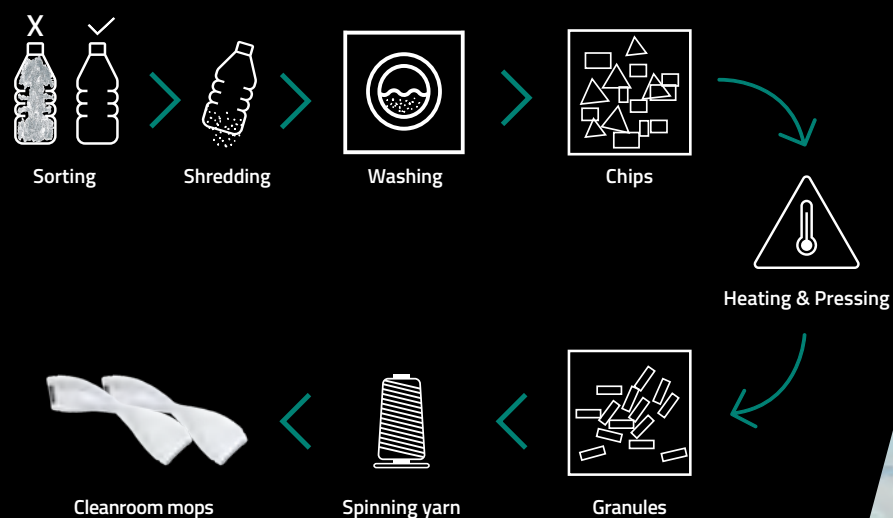


THE RECYCLING-MOP

Across all industries, products made of more sustainable and environmentally friendly materials are becoming increasingly important – and this also applies to cleanroom products. The PurMop BLACK® D3-R/SR is the first cleanroom mop made of 100 % recycled polyester. All of its materials are produced from post-consumer PET bottles and are certified in accordance with the international GRS (Global Recycled Standard) standard. As a result, PurMop BLACK® D3-R/SR is a highly sustainable solution for cleanroom applications. Each PurMop BLACK® D3-R/SR mop is manufactured from approximately five PET bottles. CO₂ emissions can be reduced by up to 50 % over against conventional mops.

In terms of particle emission and cleanroom suitability, PurMop BLACK® D3-R/SR is comparable with PurMop® mops made of conventional polyester material. It cleans critical areas reliably and safely and is therefore the ultimate ecological alternative to the cleanroom mops commonly available on the market.

How the PurMop BLACK® D3-R/SR mops are manufactured:



PurMop BLACK®

D3-R

Cleanroom Mop (Recycled)

Polyester-Microfiber



Focusing on Sustainability!

5 PET Bottles = 1 Cleanroom Mop!

- Made of 100 % recycled polyester yarn (GRS-certified)
- Up to 50 % fewer CO₂ emissions during production
- Includes all the benefits of the new mop line
- High liquid absorption thanks to a high-performance absorption ability
- Medium-length loops for optimal disinfection performance

D3-R CLEANROOM MOP

- Areas of application: ceiling / wall / floor
- Compatible with: PurMop BLACK® 2.0 ERGO-B/SB (cleanroom trolley system)
- Color coding: green for non-sterile areas
- Size: 48 x 12 cm
- Packing: 2 mops / bag, 5 bags / pack, 10 packs / carton [100 mops]

Item no. 2112025

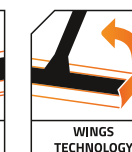
ISO 5 GMP C/D

D3-SR CLEANROOM MOP [STERILE]

- Areas of application: ceiling / wall / floor
- Compatible with: PurMop BLACK® 2.0 ERGO-B/SB (cleanroom trolley system)
- Color coding: orange for sterile areas
- Size: 48 x 12 cm
- Packing: 2 mops / bag, 5 bags / pack, 10 packs / carton [100 mops]

Item no. 2112026

ISO 5 GMP A/B



PRESATURATED MOPS

THE SAFE SOLUTION – WITHOUT CLEANING TROLLEY

With factors such as small cleanroom areas, a lack of storage space and no time to prepare a cleaning trolley becoming increasingly common, the demand for ready-to-use systems is constantly growing, especially among pharma manufacturers. Our new products from the PurMop BLACK® series precisely address this need and are available in two different designs, both of which guarantee fast and easy handling while also reducing user errors. The PurMop BLACK® D1 mops form the heart of these R2U and DIY models – which offer all the advantages of the new mop generation ("BLACK48").

Spacesaving

Do you have small cleanroom areas without adequate space to store a cleaning trolley? Do you need to clean an area without access to WFI / DI water? This is no problem anymore because our R2U and DIY mops require no cleaning trolley or mop box systems whatsoever. As solutions that are always ready to use within seconds and work safely and reliably, the C1 and C2 offer a lot of advantages.



Saving Resources

With the aim of further saving resources, we redesigned our packing units and developed a delivery format which eliminates the well-known problem of excess fluid. Presaturated mops not only ensure optimal saturation levels, but also save time, effort, space and money. This makes our solutions good for the environment and your wallet.

R2U & DIY

The new ready-to-use and do-it-yourself products in the PurMop BLACK® Performance Line offer maximum reliability and flexibility for every application. Our presaturated ready-to-use products guarantee the best possible reproducibility by eliminating the preparation of concentrates – a frequent source of error. The Fillpack, on the other hand, guarantees maximum flexibility because it can be filled with any fluid of your choice.





PurMop BLACK® P1-S

Cleanroom Mop
Sterile | Presaturated
Polyester-Microfiber

Ready-2-Use: Presaturated, Ready for Cleaning

Well-established for many years, virtually residue-free and suitable for daily disinfection:

- Isopropanol 65 % / Ethanol 5 % / Pharma Water 30 %

Tear open & get started!

Ideal for small cleanrooms or for removing residues:

- Immediately ready-to-use
- Two mops per bag = area performance of up to 44 m² per bag
- Avoids deviations and under-/overdosage
- Ideal for glass and smooth surfaces
- "BLACK48" – the new mop size fitting the carbon fiber mop systems C1 & C2

P1-S IPA-DE

CLEANROOM MOP | PRESATURATED [STERILE]

- Areas of application: ceiling / wall / floor
- Color coding: orange for sterile areas
- Size: 48 x 12 cm
- Packing: 2 mops / pack, 20 packs / carton [40 mops]

Item no. 2112037

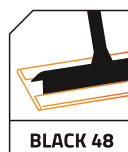
ISO 5 GMP A/B

BIOCIDAL PRODUCT INFORMATION

Use biocidal products carefully! Always read the label and product information before use!

Available in selected countries only. Please contact us for more information.

PT2-Disinfection of hard/non-porous surfaces in cleanrooms with RTU pre-impregnated mops/wipes with mandatory prior cleaning at 18-25 °C. Make sure to wet the surfaces completely and apply the product in sufficient quantity to ensure that the surfaces remain wet during the entire incubation time.



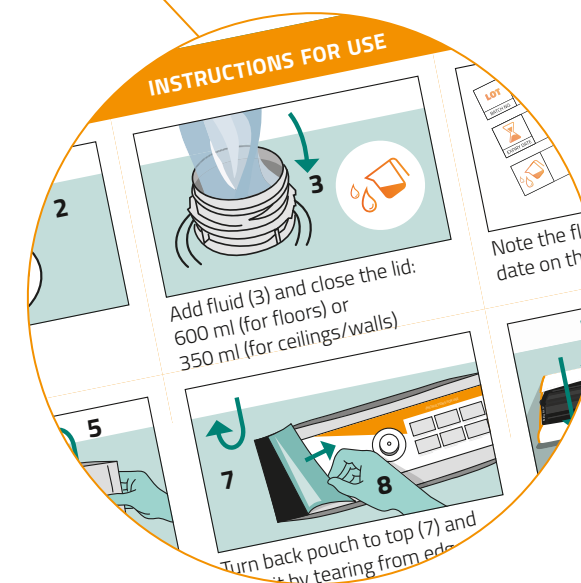
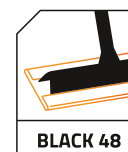
PurMop BLACK® F1-S

Cleanroom Mops
Sterile | Fillpack
(ready to fill with fluid)
Polyester-Microfiber

Do-It-Yourself: Fillpack for self-impregnation

- Bag with a screw cap: ready for presaturation with your chosen fluid
- Ready to use in 2 or 5 minutes (for floors or ceilings & walls) – safe and reliable to use – ideal for small cleanrooms
- 2 mops per bag/fillpack = area performance of up to 40 or 30 m² (600 ml fluid for floors/ 350 ml for ceilings & walls)
- Bags and mops are compatible with any common bactericides, sporicides and cleaning agents.
- "BLACK 48" – the new mop size fitting the carbon fiber mop systems C1 & C2

Ideal for varying disinfectants/rotation!



Application video
YouTube



F1-S

CLEANROOM MOP | FILLPACK
(READY TO FILL WITH FLUID) [STERILE]

- Areas of application: ceiling / wall / floor
- Color coding: orange for sterile areas
- Size: 48 x 12 cm
- Packing: 2 mops / pack, 45 packs / carton [90 mops]

Item no. 2112046

ISO 5 GMP A/B

CLEANROOM TROLLEY

PurMop BLACK® 2.0 ERGO-B/SB

Ergonomic, touchless, and made of high-quality stainless steel – introducing the latest generation of our PurMop® ERGO cleanroom cleaning trolleys. In combination with the carbon fiber mop systems C1 & C2 and cleanroom mops from the PurMop BLACK® Performance Line, this system promises user-oriented handling, clever mop dosage and durable yet cleanroom-suitable design. PurMop BLACK® C1 & C2 enable you to open the frame at the push of a button, meaning that the cleanroom trolley does not need a separate mop discarding system. To fit the new mop size, the ERGO BLACK trolley models come with a newly developed mop magazine and adapted dosing plate. The highest of standards in cleanroom cleaning – guaranteed with this globally proven system!

PurMop BLACK®

2.0 ERGO-B

Cleanroom Cleaning System with Dosing Unit

2.0 ERGO-SB 230

Mop carrier

Dosing plate

Ergonomic, unique, and GMP-compliant

- GMP-compliant design, easy to take apart and clean
- New mop magazine for easy mop pick-up
- Special dosing plate for “BLACK48” mops
- Optimal presaturation of mops using the proven dosage system of the 2.0 ERGO product range
- With plaque for individual marking

2.0 ERGO-B 230

CLEANROOM CLEANING SYSTEM WITH DOSING UNIT | PLASTIC

- 3 x 16 l buckets
- 2 x 6 l accessory buckets
- Mop carrier and mop wetting device (incl. dosage plate)
- Includes handle holder and waste bag holder
- Dimensions assembled (L x W x H): 65 x 70 x 105 cm
- Weight: 20 kg

Item no. 2123036

ISO 6 GMP C/D

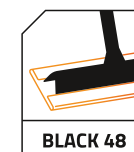
2.0 ERGO-SB 230

CLEANROOM CLEANING SYSTEM WITH DOSING UNIT | STAINLESS STEEL

- 3 x 18 l buckets
- 2 x 5 l accessory buckets
- Mop carrier and mop wetting device (incl. dosage plate)
- Includes handle holder and waste bag holder
- Fully autoclavable
- Dimensions assembled (L x W x H): 66 x 70 x 103 cm
- Weight: 30 kg

Item no. 2123035

ISO 5 GMP A/B



Other models available on request

ISOLATOR CLEANING TOOL

PurMop BLACK® C4

Integrated corner
cleaning („wings“)

Mop frame can be
fixed in any position

Handle and frame can be
separated („clip system“)

Mop disposal with the
touch of a button

Low weight thanks to
carbon fiber

Cleaning isolators used to be a real challenge. Surfaces could often not be cleaned completely or only be reached with great effort. The danger to the user was constantly present, as hand contact was usually necessary when picking up and dropping the mop. The new isolator cleaning tool from the PurMop BLACK® Performance Line solves this problem. It offers GMP-compliant, contact-free working for greater safety with maximum user comfort.



Goodbye Cross-Contamination

The PurMop BLACK® C4 isolator cleaning tool sets new standards for safety. Thanks to touchless mophandling – from pick-up to disposal – it eliminates the risk of cross-contamination. This ensures maximum protection for both the product and the operator, providing the highest level of safety in the cleanroom.

Flexibility for Any Challenge

Always have the right tool at hand for every cleaning situation in an isolator – this is the C4. Our carbon fiber isolator cleaning tool of the BLACK Performance Line offers a maximum of adaptability. As needed the frame can be detached from or fixed to the handle. The front part of the frame can be used freely movable or fixed in a desired position ensuring precise and efficient results.



BLACK 21 Mop Design

Developed for the highest demands: The ID9-S impresses with its well-thought-out design and high-performance material. Like all mops in the BLACK Performance Line, it features "wings" for optimized corner cleaning – but it also comes with a flat design for small spaces. It reliably captures contaminants and is also suitable for disinfection. Additionally, the ID9-S is available in a convenient fillpack.

PurMop BLACK®

C4

Carbon Fiber Isolator Cleaning Tool

Fixed handle & Frame

Only
250 g

Safe, light & ergonomic

- Mop discarding with the push of a button
- Enables touchless mop handling
- Light and durable cleaning tool
- Frame can be used in various positions (fixed, freely movable, separated from the handle)
- Chemical resistant and autoclavable



C4

ISOLATOR CLEANING TOOL | FIXED HANDLE & FRAME

– Areas of application:
workbench, isolator, hard-to-reach areas

– Compatible with:
PurMop BLACK® ID9-S and IF9-S

Item no. 2131077

ISO 5

GMP A/B



Isolator Cleaning Tool

BLACK 21 Mop Design: Convenient and safe

- New mop size suitable for PurMop BLACK® isolator cleaning tool
- Mop pick-up and disposal without hand contact
- "Wings" for integrated corner cleaning
- Microfiber material with high/low structure for optimized cleaning and disinfection
- Bound edges
- Low particle release
- Sterile



PurMop BLACK® ID9-S

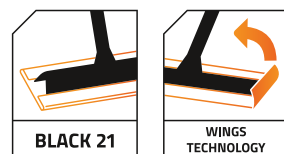
Cleanroom Mop for
Isolator Cleaning Tool
Sterile
Polyester-Microfiber

ID9-S CLEANROOM MOP FOR ISOLATOR CLEANING TOOL [STERILE]

- Areas of application: workbench, isolator, hard-to-reach areas
- Size: 21 x 11 cm
- Packing: 2 mops / pack
- Compatible with: PurMop BLACK® Isolator Cleaning Tool
- 50 packs / carton [100 mops]

Item no. 2112034

ISO 5 GMP A/B



ID9-S in a Fillpack: Ready for presaturation

- Mops can be saturated directly in the packaging
- Chemical resistant pouch with screw cap ready for filling with the liquid of your choice
- Packaging and mops are compatible with common bactericides, sporicides and cleaning agents
- Ready for use in just a few minutes – safe to use

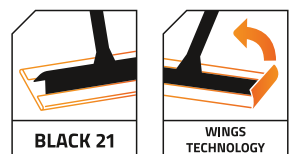


IF9-S CLEANROOM MOPS FOR ISOLATOR CLEANING TOOL | IN A FILLPACK [STERILE]

- Areas of application: workbench, isolator, hard-to-reach areas
- Size: 21 x 11 cm
- Packing: 2 mops / pack
- Compatible with: PurMop BLACK® Isolator Cleaning Tool
- 30 packs / carton [60 mops]

Item no. 2112050

ISO 5 GMP A/B



PurMop BLACK® IF9-S

Cleanroom Mops for
Isolator Cleaning Tool
Sterile | Fillpack (ready for
presaturation)
Polyester-Microfiber



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