



# PurWipe® V4-209 II

# PurWipe® V4-212 II

Cleanroom Wipe

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Presaturated

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Polyester Knit

Polyester Knit

Item no. 2186204

Item no. 2186206

ISO	3	4	5	6	7	8
GMP			A/B		C	D

The PurWipe® V4 is a high quality and ready-to-use presaturated cleanroom wipe with increased performance compared to common presaturated wipes. It boasts a high fluid level for effective disinfection and a very low particle emission. The V4 is designed for diverse applications in critical cleanrooms.

- High quality presaturated cleanroom wipe
- Lowest particle emission, fully decontaminated
- Optimal for disinfection in critical GMP areas
- Ready-to-use presaturated with Isopropanol 65% / Ethanol 5% / Pharma water 30%; resealable, VHP-resistant pouch; individually folded

	V4-209 II	V4-212 II
Size	229 x 229 mm (± 10 mm) (9 x 9 inches)	305 x 305 mm (± 10 mm) (12 x 12 inches)
Packaging	20 wipes / pouch 5 pouches / pack 6 packs / carton [600 wipes]	20 wipes / pouch 5 pouches / pack 6 packs / carton [600 wipes]
Carton size	420 x 330 x 390 mm	490 x 420 x 390 mm
Pallet	25 cartons 1200 x 800 mm	10 cartons 1200 x 800 mm

#### APPLICATION, USAGE

Recommended for cleaning and disinfection of critical surfaces in GMP and ISO cleanrooms

**Use biocidal products safely. Always read the label and product information before use!**

#### MATERIAL

100 % polyester double knit, 2-ply

#### MATERIAL WEIGHT, THICKNESS

145 g/m<sup>2</sup> (± 8 g/m<sup>2</sup>) | 0,54 mm

#### FIBER SIZE

16 µm (ø)

#### COLOR

White)

#### EDGES

Heat sealed (US)

#### TENSILE STRENGTH, ABRASION RESISTANCE

13,40 MPa (ø) | 125 movements  
(12 kPa)

#### CONDUCTIVITY

Not electrostatically conductive

#### PRESATURATION

Liquid mixture: Isopropanol 65% / Ethanol 5% / Pharma water 30%  
325 ml per pouch (9") | 565 ml per pouch (12") | sterile-filtered 0,2 µm

#### SHELF LIFE

2 years

#### RE-USE

Disposable wipe (for single use in cleanrooms)

#### PACKING CONCEPT

VHP-resistant resealable pouch, cleanroom bag with easy-tear, triple packed, for safe entry into the cleanroom

#### PRODUCT LABELLING

Label with product information, batch number and expiry date located on inner bags and carton

#### BPR CONFORMITY

Liquid mixture Isopropanol 65% / Ethanol 5% / Pharma water 30% is registered according to the current national legislation.

N-102666 (PurWipe® V4-209 II)

N-102669 (PurWipe® V4-212 II)

UFI-Code: VMM4-8XRW-DTOM-1YA1

#### DANGEROUS GOODS

UN 3175, solid substances or mixtures of solid substances (such as preparations, preparation and waste) containing flammable liquid substances with a flash point not exceeding 60 °C N.O.S.

Isopropanol (CAS-no. 67-63-0 / EG-no. 200-661-7 / Index-no. 603-117-00-0),

Ethanol (CAS-no. 64-17-5 / EG-no. 200-578-6 / Index-no. 603-002-00-5)

#### STORAGE

General storage conditions for dangerous goods apply. Protect from harmful influences (fluids, sun rays or UV light, contamination, pressure). Recommended storage temperature 5–25 °C.

#### CUSTOMS TARIFF NUMBER

COUNTRY OF ORIGIN

34025090,

People's Republic of China



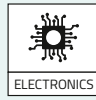
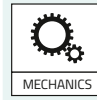
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# V4- 209 II

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## INDUSTRY SECTORS



## TECHNICAL SPECIFICATIONS (PurWipe® K1 – DRY)

PROPERTY	TYPICAL VALUE	SPECIFIED VALUE	TEST METHOD
<b>Absorption</b>			
Extrinsic	400 ml/m <sup>2</sup>	≥ 300 ml/m <sup>2</sup>	IEST-RP-CC 004.3
Intrinsic	2,48 ml/g	≥ 2,07 ml/g	IEST-RP-CC 004.3
Sorptive rate	1,12 seconds	≤ 3 seconds	IEST-RP-CC 004.3
<b>Particle emission</b>			
APC – airborne particles ≥ 0,5 µm	8.200 counts/m <sup>3</sup>	≤ 9.000 counts/m <sup>3</sup>	IEST-RP-CC 003.2
LPC – liquidborne particles ≥ 0,5 µm	750 counts/cm <sup>2</sup>	≤ 1.100 counts/cm <sup>2</sup>	IEST-RP-CC 004.3
<b>Non-volatile residue (NVR)</b>			
DI water	0,020 g/m <sup>2</sup>	≤ 0,030 g/m <sup>2</sup>	IEST-RP-CC 004.3
IPA (isopropanol)	0,030 g/m <sup>2</sup>	≤ 0,050 g/m <sup>2</sup>	IEST-RP-CC 004.3
<b>Organic and inorganic substances (FTIR)</b>			
Silicone oil	not detectable	not detectable	Infrared spectroscopy
Amide	not detectable	not detectable	Infrared spectroscopy
Diocetylphthalate (DOP)	not detectable	not detectable	Infrared spectroscopy
<b>Extractable ions (IC)</b>			
Sodium (Na <sup>+</sup> )	0,40 ppm	≤ 0,50 ppm	Ion chromatography
Potassium (K <sup>+</sup> )	0,07 ppm	≤ 0,10 ppm	Ion chromatography
Magnesium (Mg <sup>2+</sup> )	0,08 ppm	≤ 0,10 ppm	Ion chromatography
Calcium (Ca <sup>2+</sup> )	0,20 ppm	≤ 0,50 ppm	Ion chromatography
Chloride (Cl <sup>-</sup> )	0,20 ppm	≤ 0,50 ppm	Ion chromatography
Ammonium (NH <sub>4</sub> <sup>+</sup> )	0,08 ppm	≤ 0,10 ppm	Ion chromatography
Nitrate (NO <sub>3</sub> <sup>-</sup> )	0,10 ppm	≤ 0,20 ppm	Ion chromatography
Nitrite (NO <sub>2</sub> <sup>-</sup> )	0,08 ppm	≤ 0,10 ppm	Ion chromatography
Phosphate (PO <sub>4</sub> <sup>3-</sup> )	0,30 ppm	≤ 0,50 ppm	Ion chromatography
Sulfate (SO <sub>4</sub> <sup>2-</sup> )	0,20 ppm	≤ 0,30 ppm	Ion chromatography
Bromide (Br <sup>-</sup> )	0,08 ppm	≤ 0,10 ppm	Ion chromatography
Fluoride (F <sup>-</sup> )	0,08 ppm	≤ 0,10 ppm	Ion chromatography



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**TECHNICAL SPECIFICATIONS FLUID (ACTIVE AGENT – 65% ISOPROPANOL / 5% ETHANOL)**

PROPERTIES	SPECIFICATIONS	
Effective components at 100 ml liquid mixture	52,57 g Propan-2-ol (Ph. Eur. 99.99%) 4,23 g Ethanol (96%)	
SG (specific gravity) at 20 °C	0,873	
Flash point (DIN 51755)	19,7 °C	
Dangerous goods	UN 3175 LQ	
WATER QUALITY	TYPICAL VALUES	SPECIFIED VALUES
	Purified pharma water (Ph. Eur.) TVC 1 CFU/ml Conductivity 0,8 µS/cm (25 ± 1 °C) TOC 36 ppb Nitrate < 0,2 ppm	Purified pharma water (Ph. Eur.) TVC < 100 CFU/ml Conductivity 2,0 µS/cm (25 ± 1 °C) TOC < 500 ppb Nitrate < 0,2 ppm

**MICROBIOLOGICAL EFFICIENCY FLUID**

EFFICIENCY	CONTACT TIME	EFFICIENCY	CONTACT TIME	EFFICIENCY	CONTACT TIME
<b>Bactericidal</b>		<b>Yeasticidal</b>		<b>Virucidal</b>	
EN 1276	5 min.	EN 1650	5 min.	EN 14476 Enveloped Viruses	15 min.
EN 13697	5 min.	EN 13697	5 min.		
EN 16615	1 min.	EN 16615	1 min.		

**MODELS IN OUR V4-SERIES**

PRODUCT	ITEM NO.	STERILITY	EDGES	SIZE	PACKING
V4-209-S II	2186205	sterile	heat sealed	9 x 9", 229 x 229 mm	20 wipes/pouch, 5 pouches/pack, 6 packs/carton [600 wipes]
V4-212-S II	2186207	sterile	heat sealed	12 x 12", 305 x 305 mm	20 wipes/pouch, 5 pouches/pack, 6 packs/carton [600 wipes]