



PROSAT ReFIBE Wipes

Recycled 100% knitted polyester cleanroom wipes -providing a sustainability story in a single-use world

Sustainability has become a top priority for many organizations, including those in the cleanroom industry. Manufacturers operating in critical environments are uniquely challenged in their pursuit of environmentally conscious products and protocols. Cleanroom environments are energy intensive, requiring a high consumption of resources to maintain desired levels of cleanliness. Traditional “green” practices such as the re-use of consumables: wipes and mops are problematic, as the risks of contamination and/or inconsistent performance are too great.

ReFIBE provides a sustainable solution for critical environments without jeopardizing quality or performance.

Each wipe is constructed from 100% post-consumer recycled plastic bottles (approx 7 per pouch) that have gone through a rigorous cleaning process before being converted to polyester chip. The chip is extruded and spun in a traditional yarn manufacturing process before being knitted into fabric. This fabric is converted and laundered exactly the same as Contec’s standard polyester heatsealed wipes. ReFIBE wipes are subject to the same quality and process control protocols as our virgin polyester products, eliminating the fear of compromising quality for sustainability.

PROSAT ReFIBE presaturated wipes are manufactured from 124g/m² 100% knitted polyester that is laser-cut to bond the fibres at the edges of the wipe and saturated with 70% IPA and deionised water. Laser cutting seals the fibres at the edge of the wipe, reducing particle and fibre generation. The wipes are cleanroom laundered and packed. Knitted polyester is chemical resistant and exceptionally low in particles and extractable residue making it ideal for critical environments.

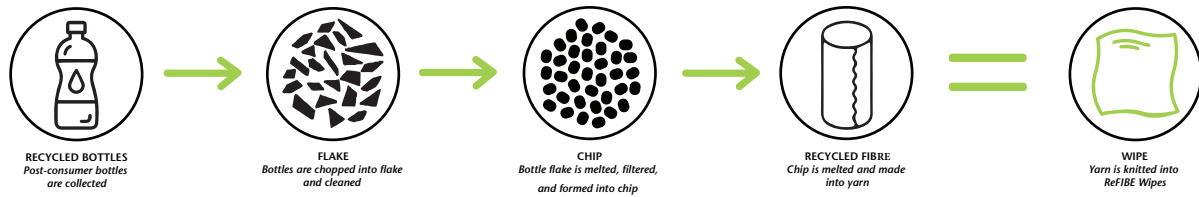
The wipes are provided in convenient and easy-to-use peel and reseal pouches. The resealable pouches preserve solvent saturation and cleanliness. PROSAT Sterile ReFIBE wipes are gamma irradiated and validated per AAMI Guidelines to a 10⁻⁶ SAL, so can be used in all grades of life science cleanroom. The sterile pouches have a small number of wipes per pouch to ensure all wipes can be used up in one session.

When used as a disinfectant, the IPA wipes are efficacious against bacteria in 1 min and yeasts in 3 mins. PROSAT ReFIBE wipes are authorised for sale in the EU and United Kingdom under the EU and GB Biocidal Products Regulation.



| Features | Benefits |
|--|--|
| 100% knitted laundered recycled polyester | <ul style="list-style-type: none"> • Low levels of particles and fibres • Abrasion and chemical resistant • Soft textured wipe cleans surfaces without scratching |
| Manufactured from 100% recycled plastic | <ul style="list-style-type: none"> • Diverts plastic from oceans and landfill • Helps organisation reduce its environmental impact • Helps organisation meet its sustainability goals |
| Presaturated Wipes | <ul style="list-style-type: none"> • Reduces solvent usage and VOC emissions • Ensures consistent saturation of each wipe independent of the operator |
| Resealable pouch | <ul style="list-style-type: none"> • Maintains saturation levels throughout use and makes wipe removal easy |
| Laser cut sealed edges | <ul style="list-style-type: none"> • Seals fibres at wipes edge reducing shedding • Suitable use in high grade cleanrooms |
| Validated sterile to a SAL of 10 ⁻⁶ | <ul style="list-style-type: none"> • Suitable for use in the highest grade cleanrooms |

How does it work

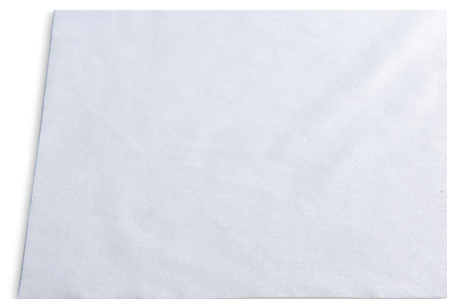


| Part No. | Description | Size | Packaging |
|----------------|--|-------------|---|
| PSRF99-BPR | PROSAT ReFIBE StandardWeight Heatseal Wipes Presaturated with 70% IPA and deionised water | 230 x 230mm | 20 wipes per pouch 30 pouches per case |
| PSRF1212-BPR | PROSAT ReFIBE StandardWeight Heatseal Wipes Presaturated with 70% IPA and deionised water | 300 x 300mm | 20 wipes per pouch 20 pouches per case |
| PSRF99IR-BPR | PROSAT Sterile ReFIBE StandardWeight Heatseal Wipes Presaturated with 70% IPA and deionised water | 230 x 230mm | 20 wipes per pouch 30 pouches per case |
| PSRF1212IR-BPR | PROSAT Sterile ReFIBE StandardWeight Heatseal Wipes Presaturated with 70% IPA and deionised water | 300 x 300mm | 20 wipes per pouch 20 pouches per case |

| Part No. | Description | Av Recycled Bottles/Case | GHG Emissions Savings Kg/Case |
|----------------|---|--------------------------|-------------------------------|
| PSRF99-BPR | PROSAT ReFIBE StandardWeight Heatseal Wipes | 198 | 5.10 |
| PSRF1212-BPR | PROSAT ReFIBE StandardWeight Heatseal Wipes | 230 | 5.93 |
| PSRF99IR-BPR | PROSAT Sterile ReFIBE StandardWeight Heatseal Wipes | 198 | 5.10 |
| PSRF1212IR-BPR | PROSAT Sterile ReFIBE StandardWeight Heatseal Wipes | 230 | 5.93 |

Greenhouse Gas Emissions saving compared to manufacture from virgin polyester.

| Product Information | |
|----------------------|--|
| Material | • 100% recycled polyester |
| Construction | • Interlock knit, no-run |
| Sterility | • Gamma irradiated to a validated SAL 10 ⁻⁶ |
| Shelf life (sterile) | • 2 years |
| Environment | • ISO 3-8 Grade A/B for sterile, C/D for nonsterile |



| Technical Data | | |
|--|---------------|-----------------------------|
| Attribute (units) | Typical Value | Test Method |
| Basis weight, nominal; (g/m ²) | 124 | Contec Method |
| Non-volatile residue, NVR | | IEST-RP-CC004.3, Sec. 7.1.2 |
| In deionized water; (g/m ²) | 0.01 | |
| In isopropyl alcohol; (g/m ²) | 0.01 | |
| Specific ions | | IEST-RP-CC004.3, Sec. 7.2.2 |
| Sodium; (ppm) | 0 | |
| Chloride; (ppm) | 0.175 | |
| Particles, readily releasable | | |
| Particles ≥ 0.5µm; (x10 ⁶ /m ²) | 2.72 | IEST-RP-CC004.2, Sec. 5.1 |
| Fibres ≥ 100µm; (x 10 ³ /m ²) | 0.15 | IEST-RP-CC004.2, Sec. 5.2 |

Notes

a) The data shown are typical values and should not be used as product specifications.
 b) Valid product comparisons may only be obtained through side-by-side testing in the same test facility, under similar conditions.
 c) Current and/or comparison data may be available. Please contact a Contec sales representative for details.



Test Methods

CTM Contec Test Method
 IEST-RP-CC004.3 Evaluating Wiping Materials Used in Cleanroom and Other Controlled Environments, Institute of Environmental Sciences and Technology, Rolling Meadows IL.

Efficacy Information

| Test | Description | Log Reduction | Time | Test | Description | Log Reduction | Time |
|---------|------------------|---------------|-------|---------|----------------------|---------------|-------|
| EN16615 | <i>E. hirae</i> | >6.03 | 1 min | EN16615 | <i>P. aeruginosa</i> | >5.74 | 1 min |
| EN16615 | <i>S. aureus</i> | >6.11 | 1 min | EN16615 | <i>C. albicans</i> | >4.71 | 3 min |

Packaging

| Packaging Materials | | | | | | | |
|-------------------------|---|---|--------|-------|-------------|-------|--------|
| | Outer bags | Low density polyethylene (LDPE)  | | | | | |
| Case | Corrugated fibreboard (PAP)  | | | | | | |
| Packaging Configuration | PCH/OB1 | OB1/OB2 | OB2/CS | EA/CS | VOC Content | kg/CS | kg/PCH |
| PSRF99-BPR | 5 | 1 | 6 | 600 | | 4.63 | 0.154 |
| PSRF1212-BPR | 5 | 1 | 4 | 400 | | 5.90 | 0.295 |
| PSRF99IR-BPR | 1 | 5 | 6 | 600 | | 4.63 | 0.154 |
| PSRF1212IR-BPR | 1 | 5 | 4 | 400 | | 5.90 | 0.295 |

EA = Wipe, PCH = Pouch, OB1 = Outer Bag 1, OB2 = Outer Bag 2, CS = Case

Recycling Key



For more information or to request a sample, email infoeu@contecinc.com or phone +33 (0) 2 97 43 76 98.

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

Certificate of recycled material



Ali Evazynajad
Contec
2680 New Cut Road
Spartanburg, SC 29301 USA

Dear Ali,

Through the U Trust® verification program, using Fiberprint® technology, Unifi is pleased to advise you that the following sample as referenced below has passed the REPREEVE® Certification Standards:

Fabric Number: Contec ReFIBE wipes
Program: Lot# ETR331501
Content: 100% REPREEVE Recycled Polyester
Structure/Construction: Knit Circular, Interlock
Yarn Information: Repreve 56T Post Consumer Polyester

Comments: beige
REPREEVE® Certification Number: RPV-12941
Issue Date: 3/16/2020 Expiration Date: 3/16/2021

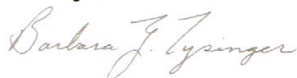
*Note: This certification covers the period of one year. Re-certification is required for active programs on an annual basis.

Unifi Manufacturing, Inc. is excited to be working with your company and we look forward to additional new programs.

This certification is provided as of the date written above and for the sole and exclusive benefit of the recipient identified above, and it may not be relied upon by any third party. This certification relates only to the sample identified above and does not extend to any other product(s) or material(s). This certification is void if doctored, mutilated, forged or otherwise altered or amended in any respect.

U Trust® verification does not warranty the content or performance of any product beyond the submitted sample. *It is the responsibility of the Brand/Retailer to verify production orders have received the U Trust® Certification.*

Best regards,



Barbara Tysinger
Manager, Fiber Applications & Analytical Studies
Phone: 336-316-5575
Email: btysinger@unifi.com



Copyright © 2023 Contec, Inc. All rights reserved. INT250 240323