

## Compliant Cleaning of Fluid Bed Dryer Bags

Proper cleaning of fluid bed dryer bags (FBDBs) is essential to prevent cross-contamination, protect product integrity, and meet GMP requirements. Effective cleaning also preserves air permeability, drying performance, and throughput over the defined service life of the bags.

This washing guide is a joint initiative by Sefar and Borer, combining filter bag design expertise with optimum processes for validated cleaning. The recommendations are based on systematic collaborative testing to define safe, compliant, and efficient cleaning practices for life science applications.

### 1 Cleaning Equipment

- Use an industrial laundry washer with a soft handling program.
- For additional protection, use an open-mesh washing bag, available on request from Sefar subsidiaries.
- Fluid bed dryer bags are not suitable for tumble drying, as mechanical stress can cause shrinkage independent of temperature.



### 2 Washing Instructions

1. Remove all clippers, carabiners, and accessories from the filter bag.
2. Optional: Place the filter bag in an open-mesh washing bag (including distance ropes).
3. Wash in an industrial laundry washer, select suitable cleaner!
  - a. for PET fabrics with maximum of 60 °C.
  - b. for PA fabrics with maximum of 50 °C.
4. Spin-dry at low speed, below 900 rpm.
5. Hang the filter bag for drying at a maximum of 60 °C.
6. Clean all metal parts and clippers manually.
7. Reinstall all clippers and mount the filter bag and ropes.

### 3 Cleaning Agents

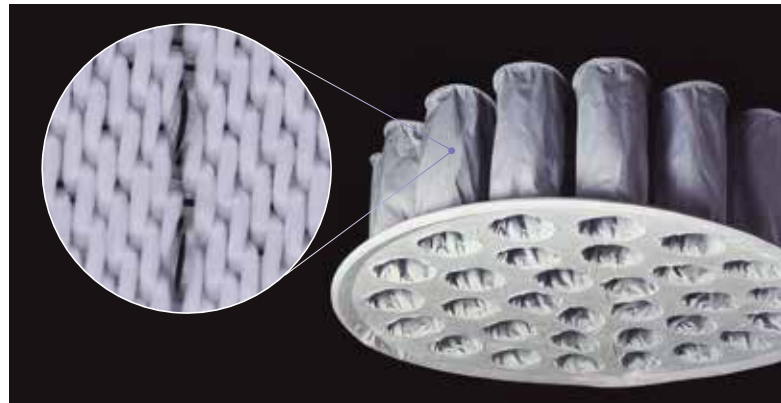
- Do not use household detergents. They may contain fragrances, softeners, plasticizers, bleaching agents, and skin care components. Their formulations are not quality-controlled for industrial use.
- Do not use fabric dyes to restore the color of the filter bag.
- Select the cleaner based on the filter fabric and the residues to be removed.
- Despite PA and PET having contrary chemical resistances, acidic or alkaline cleaners can be used in both cases when certain precautions are maintained (see details on next page).
- Refer to the next page for recommended deconex® cleaners, identified through joint testing by Sefar and Borer.

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information.



## Cleaning of textile process filters with deconex® – validated, economical, safe

1. Selecting the right cleaning chemistry is critical to achieve reliable decontamination without damaging filter bag materials. Inadequate cleaning can leave residues, promote microbial growth, or impair filtration performance, directly affecting process efficiency and batch safety.
2. Based on joint testing with Sefar, Borer has defined validated deconex® cleaning solutions matched to specific filter fabrics and pH conditions. These processes support material protection, reproducibility, and regulatory compliance while contributing to cost-effective pharmaceutical production.



3. Find the right products for cleaning your filters using the table.
  - Select PA or PET, depending on your filter fabric
  - Based on residue type, select the proper chemistry: alkaline (suitable for 80% of the residues) | acidic | pH-neutral
  - Then choose the suitable deconex® cleaner product

Polyamide (PA)		Polyester (PET)	
	Step 1	Step 2	
Alkaline	deconex® CIP power-x + deconex® CIP surf *	deconex® CIP acid / deconex® CIP fresh	deconex® FORMULA 1 + deconex® CIP surf *
	deconex® FORMULA 1 + deconex® CIP surf *		
Acidic	deconex® CIP acid + deconex® CIP surf *	Step 1 only	deconex® CIP power-x
	deconex® CIP fresh		
pH-neutral	deconex® CIP seven + deconex® CIP surf *	deconex® CIP acid / deconex® CIP fresh	Step 1 only
pH-neutral	deconex® CIP seven + deconex® CIP surf *	deconex® CIP acid / deconex® CIP fresh	deconex® CIP seven + deconex® CIP surf *

\* Optional as booster

The specific concentration of cleaners strongly depends on the nature and quantity of residues, as well as the conditions after production and before cleaning. Contact us to request a detailed and precise cleaning procedure.



Contact us to benefit from our expertise!  
[lifesciences@borer.ch](mailto:lifesciences@borer.ch)

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service details and technical support

