

► Cleanliner: Round bottom liner in cleanroom quality

- Liquid proofed insert with sealed round bottom
- For any kind of round containers, drums, fibre drums, hobbocks and pails
- Perfect protection during storage and transport
- Ideal for liquids, pasty filling products, powders and granulates



Product type	round bottom liner
Options	Liner equipped with filling spout, butterfly valve, standard valve, adapter systems
Quality	PE-LD, PE-HD
Properties	in compliance with EU regulations 10/2011/EUPC/USP With and without additives: slip agent, antiblock, antistatic agent, permanent antistatic treatment, sterilization possible
Diameters	100 mm bis 610 mm
Height	250 mm bis 1500 mm
Foil thickness	40µ bis 200µ

► Benefits

- The Cleanliner is an accurately fitting insert that fits the container perfectly without any folds
- Simple emptying of the filling product is guaranteed – no product loss
- Emptying with a pump or operating with a mixer is possible
- Time consuming emptying of residues and expensive cleaning costs can be neglected
- The Cleanliner turns your one-way container into a reusable container, replacement costs can be disregarded
- The Cleanliner protects the container itself. A contamination with the filling product can be excluded
- Cost intensive cleaning of the container is not necessary anymore

► Cleanroom quality principles

Packaging material used in cleanroom production facilities have to meet the same quality requirements like the produced products. Fact is, that only cleanroom packaging materials are able to eliminate contamination risks caused by packaging materials. This is valid all over the cleanroom-value-chain from rawmaterials via components up to consumer products.

► Cleanroom production



Process meets GMP requirements and is entirely encapsulated as cleanroom production facilities: Blown-film extrusion, automatic and manually converting and final protective packaging. Our particle and bio-burden monitoring system ensures stable lowgerm and low-particle cleanroom quality.

► GMP philosophy

- Cleanroom production (ISO 14644 - Class 7 in operation)
- integrated pest control / HACCP-principles / cleaning procedures
- GMP designed manufacturing process, documentation / training
- traceability / validation / change control
- raw-materials in compliance with EU regulations, EU-Pharmacopoe / FDA / USP
- final protective packaging ("bag-in-bag")
- ISO 9001, ECV-quality checklists, in-process-control, Certificate of Analysis
- consistently documentation / specification: raw-materials and process
- particle and bioburden monitoring

